

MARCH
1963

THE AMERICAN RIFLEMAN

50 CENTS



America's foremost gun writers and editors have stated, in one way or another, that the Redfield Variable 3X-9X represents a spectacular "breakthrough" in scope engineering. Each of them wrote from experience, have used the Variable in the field or on the range, and each was lavish in his praise of the exclusive "non-magnifying" reticle behavior feature of the new scope, i.e., heavy crosshair in relation to target at low power and fine crosshair in relation to target at high power. Most of these men also mentioned the brilliance of the optics, the lightgathering qualities at dusk or dawn conditions and the overall quality of the scope. This may well bring up a question on the part of scope users everywhere:

"How can one line of Scopes be Superior to other brands?"



Fig. A

Fig. B

The differences in the sight picture illustrated above are due to a number of quality factors: the scope's optical design, the quality of the glass, the exacting lens grinding method and the size (light gathering ability) of the objective in relation to the scope's true magnification, to mention a few... Many other scopes under identical light conditions, present a sight picture as illustrated in Figure B, i.e., less definition of target area, fuzzy edges, etc. Compare Redfield with any other scope of your choice **before** you buy—feature by feature, point by point—and you'll choose Redfield!



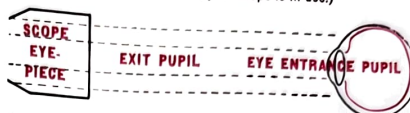
WRITE FOR YOUR NEW 1963 REDFIELD FOLDER

REDFIELD GUN SIGHT CO.

1303 S. Clarkson, Denver, Colorado

The technical explanation of why the Redfield 3X-9X Variable provides a more reliable sight picture than other scopes.

A larger Exit Pupil provides for less critical eye-alignment in normal shooting position. ("Exit Pupil" is the visible disk of light in the eye-piece end of a scope, when held at arm's length. It is this pencil of light that reaches your eye when your scope is in use.)



The size (in mm) of the Exit Pupil is the approximate clear diameter of the objective (in mm) divided by the scope's true power.

Clear Diameter of Objective Lens (in mm) = EXIT PUPIL (in mm) Magnifying Power

Example: The clear aperture of the objective lens of a Redfield 3X-9X Variable is 38.6 mm. Therefore:

38.6 mm = Exit Pupil—12.82 mm at the 3X setting

It is advantageous that the Exit Pupil be larger than the enlarged Entrance Pupil diameter of the human eye, which is approximately 4.9 mm at dawn or dusk—when light is scarce (and hunting is best). If the Exit Pupil is the same size as the diameter of the Entrance Pupil of the eye, you'll obtain maximum light from your scope **ONLY** if your eye is aligned **EXACTLY** on the scope's axis... an unusual eye position in normal field shooting



Larger Exit Pupil allows for less critical eye alignment, up or down, or side to side. (See diagram below)

When Exit Pupil is of the same diameter as the Entrance Pupil of your eye, any hurried movement results in an awkward stance (such as is frequent in rough terrain shooting) results in a misalignment with the Exit Pupil. Even though you may be seeing the full sight picture, you won't obtain full light. Lack of sharp, clear detail will make it difficult to get that "once in a lifetime" trophy that's hiding back in the shadows.



This diagram shows what happens when the diameter of the Exit Pupil shown by the larger outside circle is larger than the diameter of the Entrance Pupil of the eye. The Entrance Pupil of the eye, being smaller, can move to an infinite variety of positions in relation to the Exit Pupil, and still obtain full light.



When the Exit Pupil is the same size as the Entrance Pupil of the eye, both represented by the small circle in above diagram any misalignment results in less bright sight picture.



Shading and distortion is the result of misalignment. Your eye just isn't getting enough light, needed for those difficult dusk and dawn shots. The light is available... it's just not being used to full advantage!

Choosing the proper scope is more than a matter of personal satisfaction. You're doing your duty as a conscientious hunter, when you select a scope that will enable you to make difficult but clean trophy shots. Older members of a game herd should be removed regularly, and you are performing a definite service when you bring home that highly-desired trophy head.





NEW BALSCOPE ZOOM 60 Telescope gives you instant power dialing to **any** power from 15x, 20x, 30x, 40x, 60x or anywhere in between. ■ A roll of a finger across the control knob increases or decreases power instantly. It's so simple to select the optimum performance for range conditions — regardless of how they vary. Also, you focus just once with the same easy one-

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1888-1906 Shooting and Fishing

1906-1923 Arms and the Man

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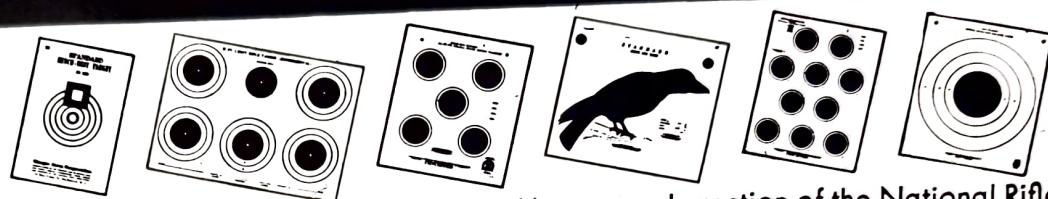
THE COVER

William Schumaker of Colville, Wash., used an Exakta 66 single-lens reflex camera, with Tessar F/2.8 lens and Ektachrome film to photograph this red-tailed hawk.

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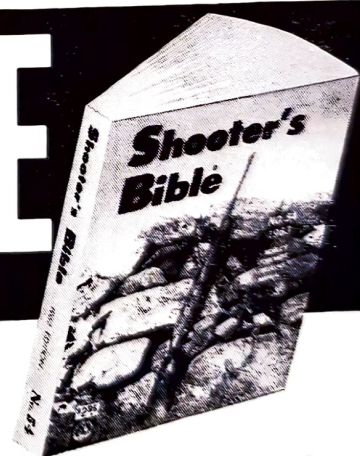
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The NRA stands squarely behind the premise that the ownership of firearms must not be denied American citizens of good repute so long as they use them for lawful purposes.

The strength of NRA, and therefore the ability to accomplish its objects and purposes, depends entirely upon the support of loyal Americans who believe in the right to "Keep and Bear Arms".

Every reputable person who owns or shoots a gun should be a member of the National Rifle Association.

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- Parent organization of rifle, pistol and shotgun shooting clubs and police and military marksmanship units
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- Originator of the nationwide Hunter Safety Training Program
- Certifying agency for firearms instructors, referees and training counselors
- Cooperating agency with Director of Civilian Marksmanship on promotion of shooting and determination of eligibility for government equipment sales
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- Custodian of the national classification system for rifle and pistol shooters
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- Author of the Hunter's Code of Ethics

- Composer of the uniform Bill of Sale for arms collectors
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- Responsible since 1903 for the operation of the National Matches
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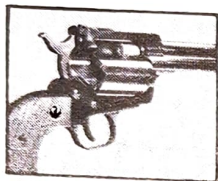
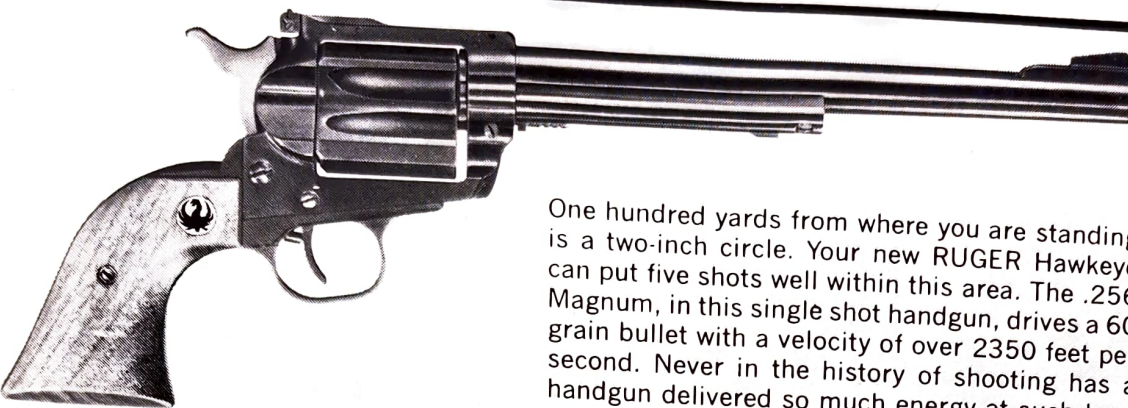
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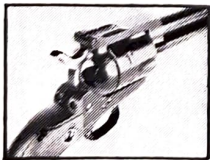
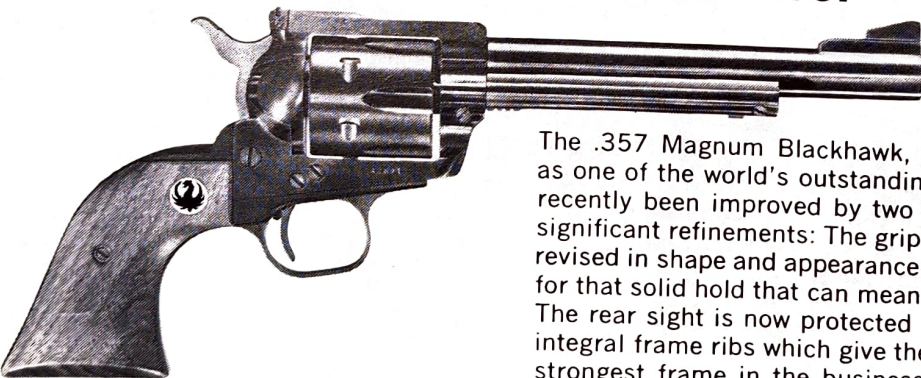
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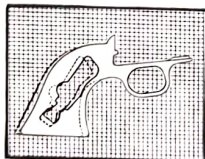
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• FIREARMS EXPERT

University of Wisconsin,
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Editor:

In our recent interview, published in the January 1963 issue of THE AMERICAN RIFLEMAN, I made the following statement:

"I believe that a firearms identification man should be a graduate of an institution such as the University of California or of Michigan State University, or some of the several other schools where police work is taught. I am utterly opposed to taking a policeman, no matter how good a record he may have had as an ordinary policeman, and putting him in a laboratory and saying, 'Now you are a firearms expert'. You don't make a man a firearms expert by telling him he is one."

In justice to many thoroughly competent firearms examiners of the past and present, for whose work I have a high regard, some explanation and clarification of the quoted statement seems in order. Having been a university teacher for over 40 years it is not strange that I have a high regard for higher education, and believe it to be desirable no matter what profession a man may enter. I am certain that courses in mathematics and the basic sciences plus some training in microscopy and photography and courses in psychology, police administration, and law enforcement would be very useful as a background for a young man desiring to become a firearms identification expert. To say that such a background is indispensable is of course an overstatement, because there are competent experts who have not had such educational opportunities. I dare say, however, that many of them wish that they had.

Dr. J. HOWARD MATHEWS

NEXT MONTH

PISTOL SHOOTING IN THE SOVIET UNION

By Will N. Graves, Jr.

Pistol target shooting and pistol shooting in the Soviet Army are discussed in this interesting report. Charts give the characteristics of both sport and military pistols, and some pistols and targets are illustrated. Another table explains the Soviet pistol classification system. Also included is information about the role of clubs and organizations in shooting, and the training programs for shooters that they conduct.

PICTURE CREDITS

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you're
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Karl T. Frederick

KARL T. FREDERICK, 82, of Rye, N. Y., a former President of the National Rifle Association and a member of its Board of Directors and Executive Committee, died at his home following a brief illness on Monday, Feb. 11, 1963. A prominent New York lawyer, Mr. Frederick achieved national prominence in 3 fields of endeavor outside his profession—competitive shooting, firearms legislation, and conservation.

Mr. Frederick first achieved national prominence in shooting when he won first place in the 50-Meter Free-Pistol Match at the 1920 Olympic Games in Belgium. He was a member of the Executive Committee of the United States Olympic Association from the time of its founding in 1920, and was, at the time of his death, Chairman of the U. S. Olympic Pistol Shooting Committee.

As recently as 1948, Mr. Frederick captained the U. S. Shooting Team at the Olympic Games in London, England. Included in his shooting honors is the winning of the U. S. National Individual Pistol Championship in 1921.

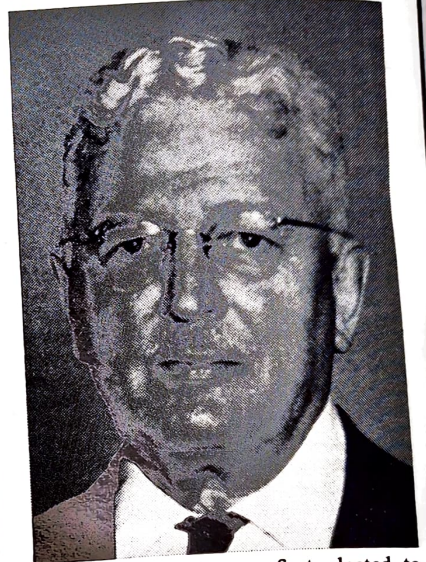
Probably in the field of firearms legislation, Mr. Frederick made his greatest contribution to the rifle and pistol shooters of America and to all gun owners. With a professional background which included a Master of Laws Degree from Princeton and a Doctor of Laws Degree from Harvard, Mr. Frederick brought into the fight against unwise gun laws both a knowledge of firearms control legislation that was unsurpassed and a zeal for the protection of the rights of shooter-sportsmen that never faded.

In the gangster era of the early 1930's, when national attention was focused at white heat on the guns of the underworld, it was Karl Frederick and Lt. Gen. Milton A. Reckord, then NRA Executive Vice President, who virtually alone fought and defeated the highly restrictive features of the National and the Federal Firearms Acts as originally proposed, which would have placed the most severe restrictions on the private ownership of pistols and other firearms.

Mr. Frederick, through the years, contributed many articles on firearms legislation to THE AMERICAN RIFLEMAN and other publications. He served on the NRA Committee on Firearms Legislation until 1962 and was the Chairman for the first 2 years of its existence, 1957 and 1958.

Mr. Frederick also devoted a lifetime of interest and effort to the cause of conservation, both nationally and in his home State of New York. He was the organizer of the New York State Conservation Council and served as its President from 1935 to 1942, and continuously since then as Chairman of its Board of Directors. He

was a Director of the National Wildlife Federation, a Trustee of the American Wildlife Foundation, and a Director and Chairman of the Executive Committee of the American Forestry Association. He was for many years an ardent and successful big-game hunter. He was a member of the Boone and Crockett Club and of the Camp Fire Club of America, an organization which he served as President from 1926 to 1928.



Mr. Frederick was first elected to the NRA Board of Directors in 1927, and to the NRA Executive Committee in 1928. His service on those committees has been continuous. He was elected President of NRA in 1934 and again in 1935.

In 1958 Mr. Frederick became one of only 4 men ever to be elevated by the NRA to the position of Honorary Life Member in recognition of outstanding service to the Association. The citation read in part:

He brought to the National Rifle Association his own great personal prestige, an international reputation as a competitive shooter, an ardor and determination to preserve the basic rights of citizens to have and use personal firearms, and a prophetic insight into problems yet to come in the field of firearms legislation.

He has given lavishly of himself, his outstanding training and ability in the field of law, his knowledge and love of shooting, his broad acquaintances in the related fields of hunting, conservation and the out-of-doors, that the National Rifle Association might grow in strength, in purpose and in service to its members and to the United States.

Few men in our time have been so gifted and so dedicated to the sportsmen and conservationists of America. Few have served so well and over so long a period of time. The death of Karl T. Frederick will be noted with sadness and a true sense of loss by a legion of people he has served.

The Armed Citizen

Law-enforcement officers cannot at all times be where they are needed to protect life or property in danger of serious violation. In many such instances the citizen has no choice but to defend himself with a gun. Below are accounts of recent instances digested from newspaper clippings sent in by NRA Members.

Aroused at 2 A.M. by noises coming from the back bedroom of his **Houston, Tex.**, home, **Willie I. McDonald** armed himself with a cal. .44 pistol and went to investigate. Finding a man going through bureau drawers, he held the intruder at gun-point while he called police. As McDonald hung up the phone the intruder rushed at him with a hammer. McDonald fired 4 quick shots, 3 of which struck the bandit, who fell seriously wounded. (*Houston Post*)

John Jonaikis, in an attempt to end a series of burglaries which had netted robbers more than \$1000 from his **Chicago Heights, Ill.**, service station, kept an all-night vigil with a loaded shotgun that finally paid off. Jonaikis, sleeping in his car, was awakened by the sound of breaking glass and saw a man rifling his cash register. When the discovered robber was ordered to surrender he attempted to flee. Jonaikis fired and wounded him with one shot. (*Denver Post*)

Forced to lie on the floor while a gun-toting bandit rifled his cash drawer and fled, a **Houston, Tex.**, grocery store owner, **Robert Way**, raised up to see the armed robber starting back towards the store. Way snatched a pistol from under the counter and went out after him. When the thug raised his gun Way fired 3 times. The bandit was killed instantly. (*Houston Chronicle*)

When **Denver, Colo.**, cab driver **Edward Dixon** had a knife pressed against his neck by a passenger who ordered him to hand over his cash, the cabbie gave the bandit his change purse and wallet. When the robber ordered him to keep driving, Dixon quickly drew over to the curb, pulled a gun from under the seat, and held the bandit at bay as he radioed his dispatcher to call the police and inform them that he had arrested a robber. (*Denver Post*)

Jack Earle, 72, a **Chicago, Ill.**, service station attendant, became suspicious when a man entered the station and pretended to be using the phone. Earle, victim of a former robbery and a vicious beating, slipped a gun out of a drawer and into his jacket pocket. When a second man entered and announced a stick-up Earle fired directly at him flooring him with one shot. As the bandit tried to rise, cocked gun in hand, Earle shot him again. The bandit was removed in serious condition by police. Two accomplices were picked up later. (*Chicago Tribune*)

Clarence D. Henry was more than a match for a man who entered his **St. Louis, Mo.**, candy store, pulled a revolver from his coat, and pointed it at him. Henry, who had previously lost \$400 to an armed bandit, closed his hand on his cal. .38 revolver and brought it up from under the counter. He fired twice and the robber fell dead with 2 bullets in his chest. (*St. Louis Post Dispatch*)

In a **Harbor City, Calif.**, liquor store, a man waited quietly for owner **Robert Drake** to finish talking on the phone. After Drake hung up, the man pulled a gun, scooped money from the till, and then backed towards the front door still pointing the pistol. At this point someone entered the store. Drake snatched a gun from under the counter and fired at the robber who fell seriously wounded. (*Long Beach Press Telegram*)

When a newly installed burglar alarm went off in **David Thune's Brooklyn, N. Y.**, apartment, he grabbed a .32 pistol and rushed to his service station next door. Surprising 2 men burglarizing the premises, Thune ordered them to come out with their hands up. Instead, both men rushed at him. Thune called on the men to stop. When they kept coming he fired once, felling one bandit with a fatal wound in the chest. The second thief tried to knock Thune down but was dropped, seriously wounded, by a second shot from Thune's gun. (*Brooklyn Eagle*)

A 72-year-old **Chicago, Ill.**, grocer, **James V. Smith**, was knocked to the floor by a thug who demanded his money. Smith reached under the counter, got a .38 pistol, fired once, and his assailant fell dead. (*Near North News*)

Rev. Father O'Donnell, rector of St. Patrick's Roman Catholic Church, in **Chicago, Ill.**, was awakened by the screams of his housekeeper and cook. Obtaining a .45 automatic, O'Donnell and another priest rushed downstairs to find an intruder, armed with 2 knives, ransacking the living room. O'Donnell fired once hitting the burglar in the leg. He held the man until police arrived. It was then that the priest learned that his housekeeper had been fatally stabbed and that his cook was seriously wounded. (*Chicago Daily News*)

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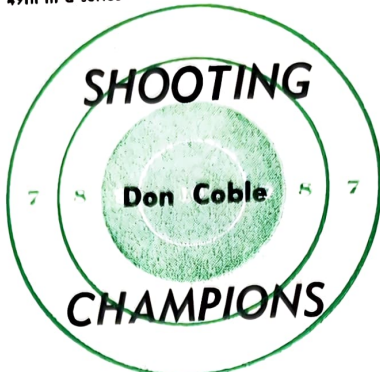


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DON COBLE, 53, Houserville, Pa., has won the National Muzzle Loading Rifle Championship 7 times. Muzzle-loading rifle and pistol championship matches are conducted by the National Muzzle Loading Rifle Association, with headquarters in Shelbyville, Ind., on the Walter Cline Range located at Friendship, Ind.

In 1938 Lou Cowher started Coble in muzzle-loading shooting when they

petition, Coble also shoots in 50-ft. gallery smallbore rifle matches during the winter months for the Rock Springs Rifle Club of State College, Pa. He is also a member of the Altoona cal. .30 rifle team, and is an NRA Lifetime Master with the high power rifle.

Since 1938, Coble has won many National titles in muzzle-loading tournaments. Besides the 7 National Championships, he has taken the Flintlock Championship 9 times, the Offhand Championship 8 times, the Light Rifle Aggregate 4 times, the All-Around Aggregate 8 times, the 25-Yd. Offhand Aggregate 2 times, the Bill Large Musket Aggregate 2 times, and the Offhand Flintlock Aggregate once. He also has come in first in the Crosley Shoot-Off in 1947, 1953, and 1962. This is a 'traditional' match at the National Muzzle Loading Championships which is similar to the President's Match in high power rifle competition at the NRA National Matches at Camp Perry, Ohio.

Coble builds his own rifles, using barrels, locks, and hardware pur-



met at a gallery smallbore rifle match. Cowher, who had contributed several muzzle-loading rifle shooting articles to *THE RIFLEMAN*, taught Coble all the loading and shooting techniques necessary for good accuracy with the round-ball muzzle-loading rifles.

Coble attended his first muzzle-loading rifle match in 1938, using a percussion hunting rifle relined to cal. .36. During this shoot Coble met another muzzle-loader, William Younker, who instructed him on proper mold sizes, powder charges, and good patching material.

By the fall of 1938 Coble had acquired a cal. .45 rifle for match shooting. With this rifle Coble won his first important match at the Nationals—the 10-shot 100-yd. open-sight event with a score of 92x100.

In the early years of his muzzle-loading shooting, Coble practiced in all kinds of wind conditions and learned how to 'dope' wind. He now considers this to be an important asset in competition.

Besides muzzle-loading rifle com-

chased or won. He does not make rifles for others.

Coble shoots at least once a month in local muzzle-loading events during the summer and attends at least 5 major matches each year. He also competes in 5 cal. .30 high power rifle matches in the Western Pennsylvania League each summer, and in the Pennsylvania State High Power Championships in the fall.

Coble considers the offhand position to be his strong point, whether with muzzle-loaders (both percussion and flintlock), cal. .22 rifle, or .30 high power rifle. Offhand shooting with the flintlock requires complete coordination and follow-through, and these have been of great help to Coble in shooting modern rifles as well as the old-timers.

Coble, who is married and has one son, is a tree surgeon for Pennsylvania State University. He considers this rugged work has helped keep him in good physical condition which is an important factor in shooting.—
JOHN J. GRUBAR

The competitive shooters' SCORE SHEET



The 2nd Annual Sun Carnival Pistol Tournament was fired at the Desert Sands Gun Club in El Paso, Tex. A total of 134 shooters attended. Capt. Thomas D. Smith, III, led a list of teammates from Lackland AFB who posted over-2600 scores, with a 2646-125X. Coming in second was Capt. Franklin C. Green, USAF, with 2643-132X.

Winner of the NRA Junior Sectional in Chicago was Southtown YMCA Rifle Club member Joseph R. Waska with a 388. The high team was St. John's Military Academy with 1498. . . . Arnold Kansteiner, Jr., of St. Charles, Mo., beat William A. Nelden, St. Louis, 861 to 860, at the St. Louis Indoor Pistol Meet.

Competitors at the First Inaugural High Power Rifle Match at Ft. Sill, Okla., were greeted by howling winds and 15° temperature. N. R. Plunkett of Ft. Worth, Tex., took the honors with a 241-13V. . . . Air Force shooter Jack G. Giannola totaled 781 to win the Ft. Campbell, Ky., Open Smallbore Indoor Match.

Edward J. Weitzman of Oaklyn, N.J., shot an 1124 victory at the Blue Hen Indoor Pistol Tournament at New Castle, Del. . . . At Detroit, Mich., Regnold W. LaRue of Jerome, Mich., won the Marksmen's Club 7th Annual Pistol Match by a 15-point margin (872) in a field of 89 competitors. A National Police record of 200 plus 9 tens was set by U. S. Border Patrolman John C. Forman in the cal. .22 timed-fire match. . . . In the Modesto, Calif., Gallery Rifle Championship William Roos of Sacramento took first with a 788 four-position aggregate.

The Big Timber, Mont., Rifle & Pistol Club held their 12th Annual Schuetzen Tournament, a 100-shot standing (continuous firing) match. Local shooter Robert L. Groom took the honors with a 955 total. . . . First at the Winter Invitational Hi-Power Rifle Match (in 8° weather) at Camp Robinson, Ark., was Herschel S. Garner of Little Rock with a 318-8V. . . . A 587 by Ralph Gregory of Winchester, N.H., was good for the win at the 6th Annual Early Winter Gallery Rifle Match at Brattleboro, Vt.

. . . con't on page 104

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A Knowledge of Existing Gun Laws

THERE is a growing tendency in America today to attempt to solve problems of daily living by enacting another law. This is especially true in cases of crimes with firearms. Because it is generally accepted by all concerned that some degree of control over the use of firearms is both proper and necessary, the reaction of many people to crimes involving a gun is that the crimes happen because the laws are too lax. Therefore, they conclude that there should be another gun law or that "some teeth" should be put into the existing law to make it work. They fail to realize that crimes cannot be controlled by regulating firearms in the hands of law-abiding citizens and that you cannot make an unsound law work by putting teeth in it. The so-called Sullivan Law in New York has had so many teeth put into it over the years in a futile attempt to make it effective that it now can bite from either end and in any direction. Unfortunately for all, it is as bad a law today as when it was enacted and just as ineffective in solving present-day crimes.

Too many people do not know what causes crime. The Federal Bureau of Investigation, in its Annual Uniform Crime Reports for the United States, lists some of the conditions which will affect the amount and type of crime that occurs from place to place:

- Density and size of the community population and the metropolitan area of which it is a part.
- Composition of the population with reference particularly to age, sex, and race.
- Economic status and mores of the population.
- Relative stability of population, including commuters, seasonal, and other transient types.
- Climate, including seasonal weather conditions.
- Educational, recreational, and religious characteristics.
- Effective strength of the police force.
- Standards governing appointments to the police force.
- Policies of the prosecuting officials and the courts.
- Attitude of the public toward law-enforcement problems.
- The administrative and investigative efficiency of the local law-enforcement agency.

Too many people are ignorant of existing laws controlling firearms. They do not know their own state laws on the subject and have no understanding of the federal laws which place effective controls on the sale of firearms and ammunition. The National Firearms Act imposes, among other things, a \$200 tax on the making or transfer of any fully automatic weapon, shotgun with a barrel less than 18" in length, rifle with a barrel less than 16" in length, certain other concealable weapons except a pistol or revol-

ver, and any muffler or silencer. The Federal Firearms Act controls the movement in interstate or foreign commerce of firearms of all types and handgun ammunition. It provides, among other things, that:

- All manufacturers, importers, and dealers in firearms, handgun ammunition, and components must obtain a federal license.
- All licensed manufacturers, importers, and dealers must maintain complete records of shipments and sale of *all* firearms.
- No person may lawfully buy, sell, pawn, or transport interstate *any* stolen firearm or handgun ammunition.
- No person who is under indictment or who has been convicted of a crime punishable by imprisonment for a term exceeding one year in *any* court in the United States may lawfully transport *any* firearm or handgun ammunition, or ship or receive such firearm or ammunition in interstate or foreign commerce.
- No fugitive from justice, including persons who have fled to avoid prosecution for a crime punishable by imprisonment for a term exceeding one year or to avoid giving testimony in any criminal proceeding, may lawfully transport *any* firearm or handgun ammunition, or ship or receive such firearm or ammunition in interstate or foreign commerce.
- No person may lawfully receive, possess, or dispose of *any* firearm or ammunition stolen while moving in or which is a part of interstate or foreign commerce.
- No person may lawfully receive, possess, or dispose of *any* firearm from which the serial number has been removed, altered, or obliterated.
- No dealer, *including mail order dealers*, may ship any firearm into any state which requires a permit to purchase such firearm without receiving evidence of the possession of such permit by the prospective purchaser.

Both of these federal laws provide a maximum fine of \$2000 or imprisonment up to 5 years, or both, for conviction of violation of any of their provisions.

The crime problem will not be solved by denying to reputable people the right to keep and bear arms. Existing laws should be strictly enforced with severe punishment for criminals and hoodlums who use guns for illegal purposes. Time and again, those who advocate more firearms legislation are not aware of the laws already on the books. Gun owners and shooter-sportsmen should know the firearms laws of their state and the federal laws and tell others what they are. They should have a *knowledge of existing gun laws*.

THE TRAINING OF THE TARGET SHOT

An article with this same title, written by Anatoli Bogdanov of the USSR, appeared in the April 1955 RIFLEMAN. Bogdanov was then the world's greatest target rifleman. Two years later, when I began target shooting, his words on training became an invaluable guide and inspiration to me. Since then my own training program has led me to a World's Championship. I have set down here some of my training experiences in hope that they might prove of value to other young Americans whose dreams are also set on becoming champions with the target rifle.—G.L.A.



By GARY L. ANDERSON

THE man who is to become a winning marksman must base his training progress on some of the very basic aspects of making high scores with the rifle. Obviously considered among these aspects must be natural ability. The scope of the word ability in this case is quite extensive. We can include these physiological assets: a well-developed muscle structure, especially the muscles of the legs, back, and abdomen; a very precise control and coordination of all of the muscles; a high degree of intelligence; quick, accurate reflexes; a well-developed sense of equilibrium; and strong lungs with a high oxygen assimilation factor.

Bogdanov called shooting the "sport of the will". This indicates that even the person who possesses tremendous natural ability can never become a champion unless he has the will to succeed. The difference between being a State, Regional, or even National Champion, and a World Champion represents a momentous expenditure of time, energy, and effort. Only the person who is willing to forego his quest for relaxation and enjoyment and to sacrifice these to the desire for becoming a champion will ever find that reward. In short, if you want to become a champion, you must resolutely decide that is your goal and never relax your efforts until it has been achieved. When serious obstacles develop in training that seem to discourage further improvement, or when you taste the bitterness of defeat in competition, only your will to win will keep you moving on.

Another foundation on which the training program is built is the shooter's equipment. Although endless comments are devoted to this subject, I feel much of this concern is unwarranted as the novice marksman is deceived into believing that having this particular rifle, sight, or trigger will make a great improvement in his scores. Certainly I want to have the best rifle and ammunition available, but only because I

Gary L. Anderson, a Presbyterian ministry student at Hastings College, Nebr., won the 50- and 300-Meter Free-Rifle Championships, the Smallbore Rifle Standing Match, and the 300-Meter Free-Rifle Prone Match at the 38th World Shooting Championships. He set 3 World Records.



must have absolute confidence in my equipment. It is my contention that whenever seemingly unexplainable bad shots or scores are made, the last thing that should be questioned is the rifle and equipment. So, for equipment, I will say only that one should get what he considers to be the best, take care of it, and then forget about this problem. I consider it advantageous to keep the equipment repertory simple. Constant experimentation with gadgets and accessories will only detract attention from the real problems.

A final basis of championship development is to be found in the 3 shooting positions. There is only one basic variation of each position that will allow the marksman to reach his highest potential. These are the so-called classic or orthodox positions described in the article, "The Elements of Position Shooting", in the April 1961 RIFLEMAN. These positions include the high kneeling position with the body erect and its weight supported on the right heel and the kneeling roll; and the balanced standing position utilizing both legs for

support, the displaced torso, and the quite severe back bend. Much misinformation exists concerning the various positions, partially because many local shooters have been successful with their own unorthodox positions. These people have won in spite of and not because of their positions. The young marksman should from the very beginning work out his positions on the classic variations. The total use of classic positions by the top-ranking shooters in the last World Championship matches verifies the fact that Championship marksmanship success is too difficult to attain with unorthodox positions.

Physical preparation

An integral part of any marksmanship training program should be a purposeful system of physical preparation. A popular conception of the marksman has him being an unmuscular, unathletic individual who is perhaps even a bit on the heavy side. This is not true. The champion marksman must be an athlete, not that he must be a champion at other sports; but he must be adept in the execution of many athletic feats. When one learns that it takes 5 or 6 hours of concentrated physical effort to fire the free-rifle standard course, then he can recognize the importance of physical condition.

Another popular notion is that the only way to develop the muscles needed in shooting satisfactorily is to shoot. Perhaps this would be true if the marksman had time to train 6 hours a day and he did nothing but practice firing. Both practice and match firing place demands on the body's endurance, but the greatest strain of competition comes not from the physical work of holding and lifting the rifle but rather from the tremendous nervous strain and its effects. The pulse rate becomes much faster, the nerves become tense and sensitive, and a supreme effort must be made to control the body's physical reactions resulting from the various emotional motivations affecting it.

Physical conditioning is in itself a way of strengthening the will and here becomes a definite factor in whether a man has the reserves of strength to win the battle of self-control he must wage. Often the tension of competition will cause a loss of weight or sleep, especially if the competition is a long one. Again the shooter's physical condition must be strong enough to sustain these losses without his scores going down.

What, then, comprises a good physical training program for shooters? First I would urge participation in selected team and individual sports. Among the sports beneficial to shooting are volley-

ball, basketball, gymnastics, ice skating, skiing, swimming, and cross country running. All of these sports have been used to advantage by the different champions of the shooting world. I am particularly convinced of the value of running and I attempt to run one to 2 miles daily in the preliminary stages of my training. This strengthens both the breathing mechanism and the legs which are so vital to standing position stability. The sports to avoid are sports which require sudden violent expenditures of energy. Of particular note here is weight lifting.

Since the opportunity to participate in sports is often sporadic, it becomes necessary to devote about 15 minutes daily to doing a series of gymnastic drills. The particular variety of exercises used is not nearly as important as doing them. Recommended drills include push-ups, pull-ups (don't overdo these 2), sit-ups, knee bends, back bending, and a long run. An evaluation of the state of personal fitness will indicate the number of repetitions for each exercise and the need for other drills. When the time for the important tournaments arrives, participation in fast-moving sports and drills should taper off and end. During the tournament period just a few light exercises should be used and then these should be used only to loosen the muscles.

Although there has been no conclusive research on the effect of moderate use of caffeine, nicotine, or alcohol, the competitive experiences of many men have shown that the indiscriminate use of any of these has a degrading effect on the marksman's score. My personal feeling, and one that is shared by many athletes, is that it is better to stay away from any stimulant or depressant as a regular feature of life because their use affects the normal functioning of the nervous and cardiovascular systems.

Shooting exercises

The real heart of the training program is the marksman's work with his rifle or his actual shooting exercises. This training must have 2 purposes: one, to increase the shooter's performance capability; and 2, to solve the problems of position and technique.

In the northern part of the United States in the winter it is impossible to shoot outdoors. I experience this myself and have found most of my training objectives can be achieved just as well on an indoor range by using the 50-ft. ISU-type target. Even finding a range can become a problem, but the determined marksman will not let this interfere with his training. Often more can be accomplished by dry-firing than by using ammunition, and dry-firing

can be performed in the home. The cost of buying ammunition for practice can become a serious obstacle to many young shooters, but again the practice of dry-firing can be employed to serve training needs as well.

For the student who must spend many hours in classes and studying, time might become an obstacle to training. Inevitably, however, there is always that hour or 2 every day that ends up wasted. The man who really wants to win will take advantage of every spare minute.

By deciding how much time there is for practice, how much ammunition to fire, and where to practice, a plan can be evolved for employing the facilities which are available. Of course all of a shooter's training should be governed by an over-all plan.

There are several considerations in formulating the training plan. One is the development of the shooter. A beginning shooter will not be able to perform well for more than about 50 rounds. An expert can do his best for

to that sought-after peak is too fast or too slow and will dictate necessary adjustments in the plan. The veteran marksman must often guard against reaching his peak weeks before the big competition and being 'shot out' by the time the match comes.

The dates for the various tournaments should be written in a general plan covering the whole year. Local and regional matches should be used only as preparatory checks, as the main program must remain directed to the

ceive ways to prevent the repetition of these shots. He must discover why he scored his 10's and how he can repeat these good performances. He must be able to examine critically the various phases of his technique in order to see their shortcomings. And he must be capable of isolating all of his problems and of formulating corrections for them.

Many of the problems which arise cannot be solved by one or 2 simple changes, but must be worked out through the slow process of experimen-

NEXT MONTH

Gary L. Anderson discusses the positions used in International free-rifle competition in an article entitled "Position Evolution".



Although Gary Anderson himself is a left-handed shooter, he has written this article with the right-handed shooter in mind



over 100 rounds on at least 2 days per week. The beginner is primarily concerned with developing the stability of his position. The expert marksman may well spend an entire training session investigating the role of one muscle. The training plan must be mapped out to fit the needs of the one person it is designed for.

Attaining peak performance

The reason for this training program is to make the best possible preparation for the coming tournaments; thus the plan must be centered around this objective. It is imperative that the shooter train to reach his best capability at the time of the important tournaments. Careful analysis of practice results will indicate if the approach

more important National and International Championships.

Within this general plan, weekly and daily tasks must also be planned. When the shooter goes over his day's training session he then is able to comprehend the problems which he must solve in the next few days. A plan for the next day's training must normally be made in conjunction with the evaluation following each day's practice and also with reference to the objectives of the general plan.

Much of the value of each training session would be lost without the benefit of a careful analysis of one's shooting both during and after training. The good shooter must be constantly thinking when he is shooting. He must assign a reason to each bad shot. He must con-

tation. In spite of its importance, the role of experimentation is greatly overdone by many shooters who find themselves constantly involved in some change or experiment they have devised to raise their low scores. These changes are even carried out at the time of the tournaments. It is important that all but minor changes cease months before the big matches. Experimentation must be intelligently controlled and its results objectively considered. Nevertheless, without experimentation the optimum modes of performance of each shooter could not be discovered.

Study the masters

When experimental situations arise, it is well to remember that most of the masters of the shooting sport have long since faced and solved the majority of these same problems. Thus it is mandatory that the new shooter also study the positions, techniques, and available knowledge of the masters. Some marksmen have learned well the lessons our sport would teach them. It is the wise

Results of the

PAN AMERICAN TRYOUTS

THE tryouts for the U. S. Pan American Games Shooting Squad were fired at Lackland Air Force Base, Tex., Jan. 21-Feb. 1. Six events were conducted: 50-Meter 3-Position Rifle, 300-Meter Free-Rifle, Free-Pistol, Center-Fire Pistol, Rapid-Fire Pistol, and Skeet. The top 4 shooters in each event were selected as firing members of the 1963 U. S. Pan American Team.

The individuals selected will fire in the Pan American Matches at Sao Paulo, Brazil, in April. There will also be a 50-Meter Prone Rifle Match fired by 4 shooters from the 50- and 300-Meter Rifle teams.

The U. S. Pan American Team Captain is Col. Peter W. Agnell, USAF (Ret'd), and the Team Adjutant is Maj. Fred Rakow, USAF.

U. S. SHOOTING SQUAD

50-Meter 3-Position Rifle

1. Sgt. Gary L. Anderson, USAF	3425
2. M/Sgt. William E. Krilling, USA	3398
3. Capt. Verle F. Wright, Jr., USA	3392
4. Sgt. David I. Boyd, II, USMC	3392
5. Lt. John T. Bertva, USAF	3386
6. Sgt. Edward E. Caygle, Jr., USAF	3378

300-Meter Free-Rifle

1. Sgt. Gary L. Anderson, USAF	3389
2. Capt. Verle F. Wright, Jr., USA	3378
3. M/Sgt. William E. Krilling, USA	3351
4. Lt. John T. Bertva, USAF	3350
5. Lt. Lones W. Wigger, Jr., USA	3338
6. Sgt. Martin I. Gunnarson, USA	3332
Alternate: Sgt. Charles D. Davis, USA	

50-Meter Free-Pistol

1. Capt. Franklin C. Green, USAF	1680
2. SFC William B. Blankenship, Jr., USA	1653
3. S/Sgt. Robert C. Meagher, USAF	1651
4. S/Sgt. Alvin R. Merx, USAF	1637
5. Capt. Paul L. Shank, USMC	1631
Alternate: Capt. James A. Getchell, USMC	

Rapid-Fire Pistol

1. Capt. Cecil L. Wallis, USA	1759
2. SFC Lawrence K. Mosely, USA	1758
3. M/Sgt. Richard M. Stineman, USA	1758
4. SFC Aubrey E. Smith, USA	1757
Alternate: SFC Henry Weinbrecht, USA	

Center-Fire Pistol

1. SFC William B. Blankenship, Jr., USA	1766
2. Capt. Thomas D. Smith, III, USAF	1765
3. T/Sgt. William H. Mellon, USAF	1762
4. Capt. William W. McMillan, Jr., USMC	1758
Alternate: Sgt. Robert E. Wilford, USA	

Skeet

1. M/Sgt. H. E. Myers, USAF	298
2. M/Sgt. H. H. Shaw, USA	297
3. SN Kenneth W. Sedlecky, USN	296
4. Lt. Gordon D. Horner, USA	295
Alternate: T/Sgt. David G. Bywater, USAF	

Armors

M/Sgt. Jack Click, USA	
T/Sgt. Louis Willing, USAF	

Alternates go to Sao Paulo only in the event a regular team member is unable to make the trip.

shooter who takes fullest advantage of their knowledge.

Evaluation of shooting results often will indicate a lower than average rate of progress in one or 2 positions. This weakness must be corrected by more work in the poor positions. This brings up the question of how to break down the practice time and ammunition. In my own training, I try to fire 6 days a week with occasional light work on the seventh day. To me one of the keys to satisfactory training is regularity, even if I must use considerable dry-firing. An hour spent each day with the rifle will do far more good than longer sessions 2 or 3 days a week. In daily practice I fire from 20 to 50 rounds in the kneeling and standing positions, depending on the particular state of each position. To the prone position I devote 20 rounds on one or 2 days a week and more only if some definite problem presents itself. At least once every 2 weeks I try to find time for the standard course (40 shots each in prone, kneeling, and standing). This adds up to an average of about 2 hours of work with the rifle each day.

Where improvement is needed

Of course each training program must fit the individual. My own schedule will not fit everyone. Some people may need daily work on prone or a disproportionate amount of work in the standing or kneeling positions. Again, only a careful analysis of daily results, progress, and development will indicate the number of cartridges to be used in each position.

Another point to remember is that the number of cartridges fired must be reduced as the match approaches. Normally for the last few days before a match, no more than 20 shots in each position should be made in one day. Never, in any training situation, should the number of rounds fired exceed the number of rounds to which maximum performance can be applied. It is a rare person who can in one day master more than 150 shots.

There are times when the marksman will find himself in a state of over-training. Firing too great a number of rounds or failure to make the training progression gradual enough can lead to fatigue and staleness. As a result, the level of results progresses downward and the shooter senses a temporary inability to work. There are also times when errors in technique or position establish themselves firmly as habits—habits which seem impossible to break. When this happens, I have found the most logical recourse is to stop training with the rifle—or at least to stop using cartridges for training—for a period of

perhaps one week. Often when the marksman returns to his rifle after a break in training he can make phenomenal scores because his bad habits have been forgotten while his fundamental good techniques have been retained.

Keep a shooter's diary

An invaluable aid in making my marksmanship evaluations has been keeping a shooter's diary. By keeping this notebook I am able to record my daily results, my experiments and their results, and the sensations and feelings I have experienced in making my scores. In this way I have been able to keep a running record of all my marksmanship experiences. Now, whenever problems arise which I have faced before, I am able to refer to their solution. Keeping a shooting diary is a distinct help.

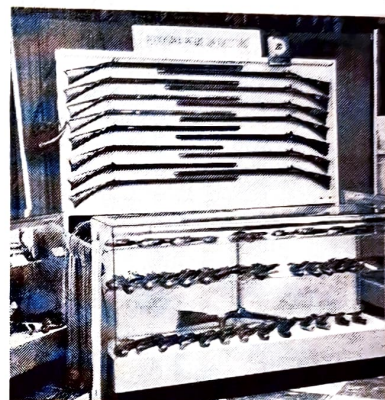
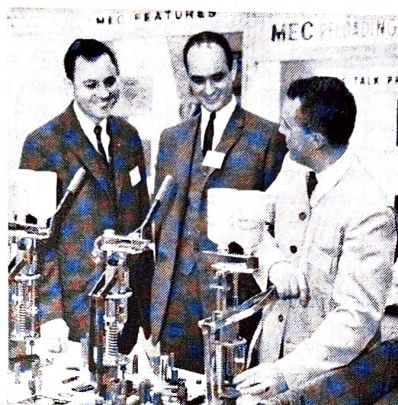
I keep careful records of the effects of atmospheric conditions and other influences which may direct the formation of my shooting tactics. The shooter must be able to recognize the type of wind condition which requires sight changing and the type which requires the selection of one wind velocity to do his firing in. The shooter must know what changing cloud and light conditions will do to the bullet's point of impact. He must know what effect increasing temperatures will have on mirage and his own endurance; this may indicate a particular sequence for the positions. He must know if wind will come into the booth and disturb the standing position's stability during a certain time of day. He must know how nervousness and endurance will affect the order in which to fire the 3 positions. He must know whether on a certain range or in certain conditions it is advantageous to fire slowly or quickly. He must know if and when he must take breaks in each position. All of these factors enter into the development of the shooter's tactics and are things which must be learned during training. Since I shun the use of a scorebook during actual firing, my observation of these factors becomes doubly important. Once more the value of careful thought is clearly shown.

It has become evident that serious marksmanship training is not a simple task, but is rather a lot of plain hard work. The many hours spent in practice certainly are not pleasurable. The only real pleasure in shooting is firing a better score than your competitors and taking first place. Young shooters must realize that the dedication and determination that makes a champion can be achieved only through intense self-discipline.



92nd NRA ANNUAL MEETINGS AND EXHIBIT

Sheraton-Park Hotel, Washington, D. C., March 23-27, 1963



This Is It! Only once a year do you have the opportunity to see and attend such an array of firearm-interest events. Lectures, displays, meetings, films, and tours that will cover all interests—gun safety, competitive shooting, hunting, game conservation, reloading, gunsmithing, gun collecting, firearms legislation, club affairs, and related subjects.

Other activities include the famous firearms exhibit participated in by most of the major manufacturers and NRA-affiliated gun collector organizations, and a tour of NRA Headquarters. **PLAN TO ATTEND!**

■ Three BIG attractions that you should attend while at the Annual Meetings are the NRA Members Meeting on Saturday, Mar. 23; the Banquet on Wednesday, Mar. 27; and the Exhibit Hall. The Exhibit Hall is open 1 P.M. to 5:30 P.M. and 7:30 P.M. to 10:30 P.M. daily, Mar. 23 through Mar. 26. On Mar. 27 the Exhibit Hall is open from 10 A.M. to 3 P.M.

■ Hotel reservation request forms may be obtained by writing to the Secretary, National Rifle Association, 1600 Rhode Island Ave., N. W., Washington 6, D. C., or you may write directly to the Sheraton-Park Hotel, 2660 Woodley Rd., N. W., Washington 8, D. C., for room accommodations. Make certain that the request states the reservation is in connection with attendance at the National Rifle Association Annual Meetings.

ANNUAL MEETINGS SCHEDULE

Saturday, Mar. 23

- 1:00 P.M. Opening of Exhibit Hall
- 2:00 P.M. NRA Board of Directors Forum
Staff Reports—NRA Activities in 1962
- 4:30 P.M. THE AMERICAN RIFLEMAN 'Dope Bag' Forum
- 8:00 P.M. NRA Members Meeting

Sunday, Mar. 24

- 9:00 A.M. Gun Collectors Meeting
- 12:15 P.M. Get Acquainted Luncheon
- 2:00 P.M. Firearms Legislation Meeting
- 8:00 P.M. Hunting Films

Monday, Mar. 25

- 9:00 A.M. Hunters Meeting
- 2:00 P.M. Shooters Meeting

Tuesday, Mar. 26

- 2:00 P.M. Sightseeing Trips

Wednesday, Mar. 27

- 9:00 A.M. NRA Board of Directors Meeting
- 12:15 P.M. Ladies Luncheon
- 2:00 P.M. NRA Board of Directors Meeting
- 7:00 P.M. NRA Members Banquet

RIFLE CALIBER INCENDIARY CARTRIDGES

By CHARLES H. YUST, JR.

Interesting cartridges that collectors may acquire must be handled with caution

THE purpose of this article is twofold: to show cartridge collectors an interesting group of cartridges which it is possible for any collector to come by; and, most important, to urge extreme caution toward any cartridge of which there is the slightest doubt as to identity or use.

There are 2 main former types of incendiary cartridges. One type has the bullet loaded with white or yellow phosphorus; the other type with thermite powder. It is only with the first type that this article is concerned, because the second cartridge type does not appear to be any more hazardous than tracer ammunition.

The source of danger

The make-up of this type of bullet is an interesting study and some collectors like to section the bullet for this purpose; others desire to note bullet weights, measurements, and shapes. All of this necessitates the removal of the bullet from the case.

Herein lies a source of danger. The usual phosphorus incendiary bullet has a small hole in the bullet jacket within the case neck. This hole is sealed with a low-melting solder which melts from the friction of the bullet passing through the barrel; air reaches the phosphorus and the incendiary action begins.

If there were an imperfection of the seal at the hole, or age had broken down the seal, there would be a phosphorus leak, and removal of the bullet from the cartridge case would be almost certain to result in igniting the propelling charge. (This writer has had such an experience.) You can imagine what could happen if an inertia-type bullet puller were used.

I believe the propelling charge should be removed from such cartridges in a collection. How this can be safely accomplished and the cartridge reassembled without disfiguring is the trick.

One method is suggested. Fasten a bullet puller (not inertia type) to a wooden block and operate it under water. If there should be a leak in the seal, nothing will happen when the bullet is pulled under water. Dispose of the propellant, dry the remaining components, plug the hole in the bullet with wax if it does not appear to be closed securely, lacquer the lower portion of the bullet, and reseal it in the case before the lacquer dries. Then, if you wish, clean, polish, and lacquer the cartridge. Use spray lacquer so that color identification code markings are not lost or obscured.

For housing or displaying these rounds, it might be wise for the owner to use a metal-drawer cabinet and line it with asbestos.

With the procedure outlined above, no harm should develop from a phosphorus incendiary cartridge, and a fine collection of a most interesting series may be preserved.

Don't section incendiaries

Incendiary rounds should not be sectioned because of the danger of phosphorus burns. They should not be fired because it would be difficult to find a target area where there would not be a fire hazard. The firing of incendiary or tracer ammunition is illegal in many jurisdictions.

For one reason or another, identification of this type of ammunition is not always clear. Therefore, for those who are curious, be they collector or shooter, a good rule to follow in the presence of explosive and incendiary cartridges is: When in doubt, *Don't*.

So far as known to this writer, Austria had in service 3 types of incendiary cartridges for 8x50R mm. Mannlicher rifles and machine guns. All were used in World War I.

All were identified by a blue primer annulus, although this could be worn



Fig. 1. Austrian 8x50R Mannlicher Incendiary M.17. Also found in 52 mm. and 55 mm. cases. Blue primer annulus



Fig. 2. Austrian 8x50R Mannlicher Incendiary M.18-0. Blue primer annulus



Fig. 3. Austrian 8x52R Mannlicher Incendiary M.18. Blue primer annulus

Fig. 4. Belgian 7.65 mm. Incendiary M.30. Red bullet tip, case mouth, and primer annulus



Fig. 5. British .303 Incendiary BIV. Blue primer annulus



Fig. 6. British .303 Incendiary BVIZ. Blue primer annulus



off. If this happened, it would be almost impossible to identify the M.18-0 incendiary round (Fig. 2) without pulling the bullet. The M.17 round (Fig. 1) has a bullet of unique shape by which it can be identified readily. The M.18 round (Fig. 3) would be difficult to identify without pulling the bullet due to the external similarity to the armor-piercing round. Bullet jackets are steel. Some M.17 bullets were found to be copper washed.

Fig. 4 is the Belgian 7.65 mm. incendiary M.30 round, which can be identified without pulling the bullet only when markings are still visible. Bullet jacket is cupro-nickel.

British cartridges

British .303 incendiary cartridges (Fig. 5, 6, & 7) may be identified by a blue primer annulus, and for aircraft class ammunition the bullet tip also is colored blue. However, if all color marks are worn off they can also be identified by the headstamp. The letter 'B' is the code for incendiary and the Roman numeral which follows is the model or mark of the series. The letter 'Z', which may follow the Roman numeral, indicates that the propellant is nitrocellulose powder instead of Cordite.

Identification of the 'BIV' incendiary is also aided by the shape of the bullet (see Fig. 5). The bullet jacket is cupro-nickel coated steel.

An unusual feature of the 'BVIZ' round is the screw plug in bullet base. The bullet jacket is gilding-metal coated steel. All rounds in Fig. 7 have bullet jackets of the same material.

The French 8 mm. Lebel incendiary cartridge (Fig. 8) has external shape like the old *Balle M*. However, the bullet is copper jacketed and has a red band at the case mouth. The bullet is longer than the *Balle M*. Cartons are marked:

TOP

Balles Incendiaries

PH C

Pour Armes de 8 m/m

FRONT

E. C. P.

Lot .75

21-6-18 Aviation

The French 7.5 mm. incendiary cartridge *Modele 1929 I* (Fig. 9) has a cupronickel jacket bullet with tip, case mouth, and primer annulus all blue. If markings were worn off, it would be hard to distinguish between it and the ball round without pulling the bullet.

Fig. 10 illustrates the German 7.92x 57 mm. incendiary 'Pr' cartridge, which had actually undergone no change, except for markings, since it was introduced in World War I. The forward portion of the bullet is filled with phosphorus, and the rear portion by a lead



Fig. 7. British .303 Incendiary Cartridges. Top, BVIZ made by Kynoch; blue primer annulus. Center, BVIZ made by Kynoch; blue primer annulus and bullet tip. Bottom, BVIZ, Canadian manufacture; blue primer annulus and bullet tip



Fig. 8. French 8 mm. Lebel Incendiary

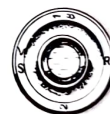


Fig. 9. French 7.5 mm. Incendiary *Modele 1929 I*. Blue bullet tip, case mouth, and primer annulus



Fig. 10. German 7.92 x57 mm. Incendiary 'Pr'. Upper head-stamp, World War II; entire bullet blackened from case mouth to point, black primer annulus. Lower head-stamp, World War I; black primer annulus



Fig. 11. German 7.92 x57 mm. Armor-Piercing Incendiary 'P.m.K.' Early markings, red primer annulus or red stripe across case head. Later markings, black primer annulus or black primer



Fig. 12. Italian 6.5 mm. Armor-piercing Incendiary

plug. The weep hole is close below the case mouth. Only identification of the World War I type is a black primer annulus. Identifying markings of the World War II pattern, adopted sometime between the wars and used through World War II, consist of a black primer annulus and exposed surface of the bullet blackened. The bullet jacket was gilding-metal-clad steel. At first glance this round could be mistaken for the armor-piercing round with tungsten carbide core, which also has a blackened bullet (late marking), but does have a red primer annulus. However, if the bullets are pulled the difference is quite apparent. The armor-piercing bullet is short without boattail and is blackened from top to bottom.

In the German 7.92x57 mm. armor-piercing incendiary 'P.m.K.' (Fig. 11), the bullet jacket is gilding-metal-clad steel. Inside the point is a lead tip followed by a spearhead or teardrop shaped steel core which is surrounded at the small diameter with phosphorus. A lead plug seals the base of the bullet and a weep hole is located just above the plug. The identifying code introduced before World War II called for a red primer annulus followed a little later by a red stripe across the head of the case. During the war the system was changed to a black primer annulus followed still later by a black primer. When loaded for tropical use, a black band around the case mouth was added. In high-velocity loads for aircraft machine guns, a thin green band around bullet ogive was added.

Italian A. P. incendiary

The Italian 6.5 mm. armor-piercing incendiary (Fig. 12) has the general appearance of the regular armor-piercing cartridge. Apparently, however, the armor-piercing incendiary bullet is slightly longer. Bullets would have to be pulled and matched to be certain, and they are also closed over differently at the base. In available data there is no mention of a color code.

The Italian 7.7 mm. (.303 British) armor-piercing incendiary (Fig. 13) has a nickel-jacketed bullet with 4 holes near the tip. The inner jacket is copper and contains phosphorus in the tip, followed by a tungsten core and a lead plug. There is no weep hole in this design. The holes near the tip are intended to weaken the bullet at that place, and on impact the jackets should split open and contents be forced out. The holes simplify identification. The blue tip indicates phosphorus load.

The Japanese had incendiary rounds in cal. 7.7 mm. and 7.92x57 mm. Fig. 14 is the Japanese Navy 7.7 mm. (.303 British) incendiary round which has a



Fig. 13. Italian 7.7 mm. (.303 British) Armor-Piercing Incendiary. Marked with blue bullet tip

Fig. 14. Japanese Navy 7.7 mm. Rimmed (.303 British) Incendiary. Cartridge has green primer annulus



Fig. 15. Japanese Army 7.7 mm. Semi-Rimmed Incendiary. Wine-red band at case mouth



Fig. 16. Japanese Army 7.92x57 mm. Incendiary. Wine-red band at case mouth



Fig. 18. United States .30 Model 1906 Cartridge, Incendiary Model 1917. Blackened bullet

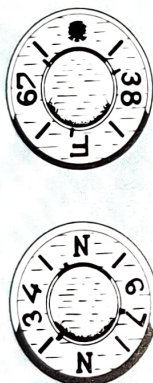


Fig. 17. Polish 7.92x57 mm. Incendiary, headstamp varieties. Yellow primer annulus. Rifle incendiary has blackened bullet, machine gun incendiary has yellow bullet tip



Fig. 19. United States .30 Model 1906 Cartridge, Incendiary Model 1918. Blackened bullet

green primer annulus for identification. Two bullet types may be encountered—a cupronickel jacket and a gilding-metal jacketed bullet with knurled cannellure at the case mouth.

The Japanese Army 7.7 mm. semi-rimmed incendiary (**Fig. 15**) can be identified by the cupronickel jacket bullet with a wine-red band at the case mouth over a knurled cannellure.

The Japanese 7.7 mm. rimless incendiary cartridge is identical except for the case head.

Fig. 16 is the Japanese Army 7.92x57 mm. incendiary round which has a gilding-metal-clad steel jacket with wine-red band at the case mouth.

Fig. 17 illustrates headstamp varieties of Polish 7.92x57 mm. cartridges. Incendiary rounds have yellow primer annulus. The rifle incendiary has a blackened bullet; the machine gun incendiary has a yellow bullet tip.

Fig. 18 is the first model of the United States incendiary cartridge (Model 1917). It is identified by the flat-nose bullet which also is blackened. This round, due to the shape of the bullet, did not prove successful and was replaced by the Model 1918 (**Fig. 19**), identified by the blackened bullet.

The United States incendiary types that followed used the blue bullet tip for identification, although they were not all loaded with phosphorus.

On checking over the above cartridges for color identification, it appears that blue predominates. This is a special warning: When in doubt and the color is blue, do not tamper without suitable precaution. Do not, of course, permit this to lull you into forgetting incendiary rounds which are identified by other colors or methods. Always treat a doubtful or unknown cartridge with respect.

NRA Publications

THE National Rifle Association makes available to its members useful and valuable information on firearms and ammunition and their use, in the form of NRA Illustrated Handbooks, RIFLEMAN Reprints, and Range Plans.

NRA Illustrated Handbooks

NRA Illustrated Handbooks contain selections of the best material on various subjects that have appeared in article form in THE RIFLEMAN in recent years.

Firearms Assembly Handbook	\$2.50*
Gun Collectors Handbook	\$1.50*
Hunters Handbook	\$2.00*
Questions And Answers Handbook	\$1.50*
Reloading Handbook	\$3.50*
Shooters Guide	\$2.00*
Shooting Handbook	\$3.50*

* Price to NRA members, postpaid from NRA Headquarters. Price to non-members, add \$1.

"Rifleman" Reprints

RIFLEMAN Reprints are smaller booklets that contain selected articles giving a wealth of practical information on specific arms or types of arms.

Civil War Small Arms	50¢
Metallic Sights	50¢
Military Rifles	50¢
Remodeling The 03A3	50¢
Remodeling The .303 Lee-Enfield Rifle	50¢
Remodeling The U. S. Model 1917 Rifle	50¢
Sighting-In Rifles And Shotguns	50¢
Telescope Sights	50¢
The .45 Automatic	50¢
The M1903 Springfield Rifle	50¢
The M1 Rifle	50¢
The U. S. Cal. .30 Carbine	50¢

Range Plans

NRA Range Plans provide useful information, based on successful 'in-use' installations, on range construction and layout that can serve as practical guides to interested clubs and individuals in building similar ranges.

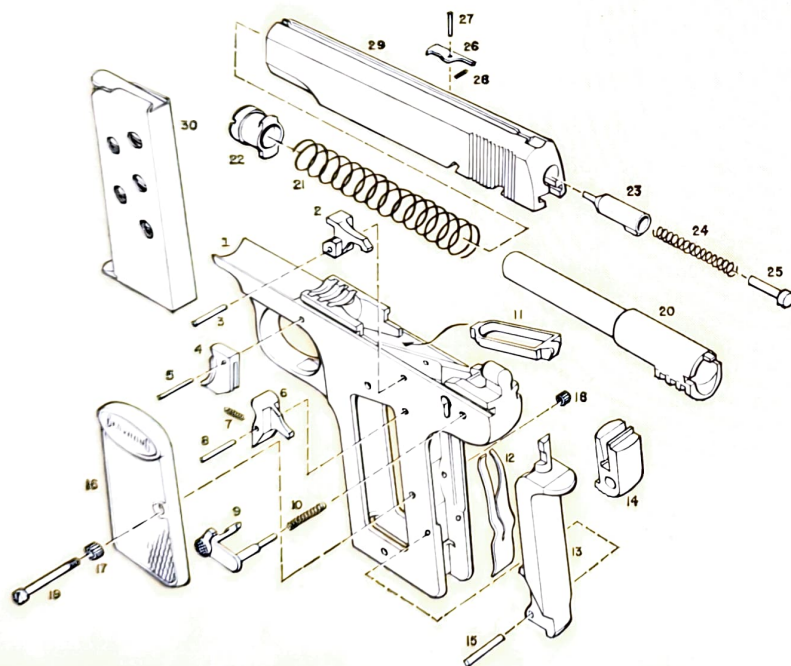
Bench Rest Construction	10¢
Construction Of Indoor Rifle And Pistol Ranges	\$1.00
50-Ft. Summer Camp Range	10¢
High Power Rifle Range Plans	75¢
Outdoor Pistol Range Plans	50¢
Outdoor Smallbore Rifle Range Plans	50¢
Range Construction—Part-Time And Special	\$1.00
Range Location And Landscaping	10¢
Running Deer Ranges	50¢
Safety Ranges And International-Type Ranges	\$1.00
Universal Outdoor Smallbore Rifle Target Frame	10¢
You Can Have A Place To Shoot	25¢

Available from National Rifle Association, 1600 Rhode Island Ave., N.W., Washington 6, D. C.



By JAMES M. TRIGGS

BROWNING .380 AUTO PISTOL



Parts Legend

1. Receiver
2. Sear
3. Sear pin
4. Trigger
5. Trigger pin
6. Magazine safety
7. Magazine safety spring
8. Magazine safety pin
9. Safety
10. Safety spring
11. Connector
12. Sear spring
13. Grip safety
14. Magazine latch
15. Grip safety pin
16. Grips (right grip not shown)
17. Grip escutcheon, unthreaded
18. Grip escutcheon, threaded (contained in right grip)
19. Grip screw
20. Barrel
21. Recoil spring
22. Slide ring
23. Firing pin
24. Firing pin spring
25. Firing pin spring guide
26. Extractor
27. Extractor pin
28. Extractor spring
29. Slide
30. Magazine assembly

IN 1910 John M. Browning obtained a Belgian patent for an improved version of his earlier Model 1900 semi-automatic pocket pistol. The new pistol, designated Model 1910, featured both magazine and grip safety mechanisms and was striker-fired. The recoil spring encircled the barrel, which gave the muzzle end of the gun a rather streamlined appearance.

It was first produced in 1912 by the Belgian firm of Fabrique Nationale d'Armes de Guerre, but was not exported for sale in the United States until 1954 when it was introduced in cal. .380 ACP only. It is available in Canada in both cal. .32 ACP and .380 ACP.

The Browning cal. .380 pistol weighs 20 ozs. and has a magazine capacity of 6 rounds. It is offered in Standard and Renaissance grades, with the latter featuring a hand-engraved, chrome-plated frame and slide, polyester pearl grips, and gold-plated trigger. The Standard grade pistol is blue-finished and grips are of black plastic.

Disassembly Procedure

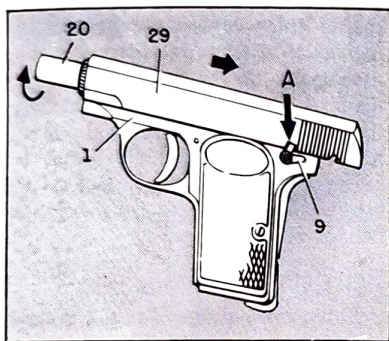
Remove magazine (30) and check to be sure it is empty. Check action to be sure pistol is unloaded. Replace magazine and pull trigger to release firing pin. Remove magazine.

Pull slide (29) to rear until nose of safety (9) enters front notch of slide. Turn barrel (20) 1/3-turn counterclockwise and

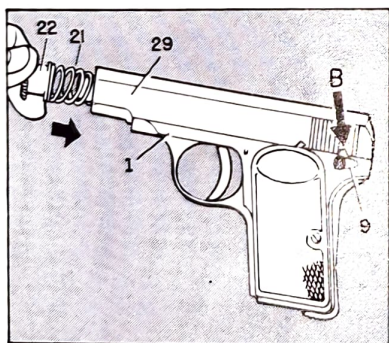
press safety down to release slide. Draw slide assembly off receiver to front. Remove firing pin (23), firing pin spring (24), and guide (25) from rear of slide.

With slide upside down, turn barrel $\frac{1}{4}$ -turn clockwise until its lugs release from slide. Depress slide ring (22) slightly and rotate it $\frac{1}{4}$ -turn counterclockwise until its lugs release from slide. Take care as slide ring is under great pressure from recoil spring (21). Withdraw slide ring, barrel, and recoil spring from slide.

To assemble, replace barrel in slide and turn it so its lugs enter corresponding groove in rear of slide. Replace firing pin assembly in rear of slide. Replace slide on receiver and push back until safety nose engages front notch in slide. Turn barrel clockwise, release safety, and allow slide to move forward until nose of safety can be engaged in rear notch in slide. Replace recoil spring around barrel and place slide ring on spring and press spring back into slide. Position slide ring so its lugs enter corresponding slots in face of slide. When slide ring is firmly seated, rotate $\frac{1}{4}$ -turn clockwise to lock it in place.



1 To remove slide (29) from receiver (1), pull slide back to position shown. Press nose of safety (9) up into front notch of slide as shown at "A". Turn barrel (20) $\frac{1}{4}$ -turn counterclockwise. Depress safety (9); draw slide off receiver to front



2 In reassembling pistol, after replacing slide assembly on receiver, lock in rear position with nose of safety (9) in forward notch of slide (29). Turn barrel (20) $\frac{1}{4}$ -turn clockwise and allow slide to go forward until nose of safety can be engaged in rear notch in slide as shown at "B". Replace recoil spring (21) on barrel (20). Place slide ring (22) over end of spring and press spring back into slide as shown. When slide ring is firmly seated against face of slide, turn $\frac{1}{4}$ -turn clockwise to lock in place ■



A Court Case of Consequence

HAMMOND owned over 300 acres of land in Sullivan County, N. Y., upon which he created an artificial lake. Of considerable size, this lake was surrounded by a dense growth of timber and brush. Here he employed men to raise trout, and to stock and guard the lake. People were permitted to fish in the lake upon payment of a fee. Notices, as prescribed by the state statutes, were posted around the property to warn off trespassers.

Among the employees was a night watchman, Tompkins, whose business it was to be on the lake at night to protect the fish from poachers and wild animals that frequently came to take the fish. When on the lake in a boat, he had been in the habit of carrying one of the owner's guns with him for the purpose of killing predators. Sometimes he fired into the air in order to frighten off poachers.

On a night in June 1899, Magar and 2 other young men went to the lake to take fish. It was after 10 o'clock, the night was very dark, and after they did some fishing they went into the thick woods on the shore. On hearing a noise there, the watchman fired 3 shots with a rifle, one of which struck Magar, inflicting a serious injury. Although the owner, Hammond, was not present, he knew his employee was in the habit of carrying one of the guns as described.

A suit for damages for the injuries was brought by Magar against both Hammond and Tompkins. At the trial Tompkins denied he was in any way aware that the plaintiff or any other person was in the adjacent woods, and he said he fired the shots in the air simply to frighten off any poachers that might be in the vicinity.

The trial resulted in a jury verdict against both the owner and his watchman, but this was reversed by the Court of Appeals of N. Y. because of error in the judge's instructions to the jury. Upon another appeal, the Court of Appeals again considered whether the jury had been properly instructed as to the law applicable to the case.

The court defined the legal obligation owed by the defendants to Magar in this language:

"The plaintiff and his companions were trespassing on the premises of the defendant Hammond and engaged

in the commission of a crime. The defendants, therefore, owed them no duty of affirmative care, and the only obligation resting upon the defendants was to abstain from willfully, wantonly, or recklessly injuring them. But, though the plaintiff and his associates were engaged in the commission of a crime, that crime was only a misdemeanor, and it did not authorize the use against them of a deadly weapon or the infliction upon them of serious bodily harm."

Applying these rules to the situation, the court said:

"Under these principles of law neither Tompkins nor his master and codefendant was liable for the accidental or merely negligent discharge of his rifle. If, on the other hand, being aware or believing that the plaintiff, or other human beings, were on the bank of the pond, Tompkins shot the plaintiff willfully, intending to hit him or some human being, or if, without intending to hit the plaintiff or any human being, he recklessly or wantonly shot where he had good reason to believe there were human beings, then he is liable for the injury caused to the plaintiff."

The court discussed whether or not Hammond could be held for damages for the shooting. In this connection, the court stated that if Tompkins, not having the interests of his employer in mind, and acting maliciously or in order to effect some purpose of his own, shot the plaintiff, then Hammond would not be liable. However, if the watchman's act was within the general scope of his employment and done with a view to a furtherance of his employer's business, then Hammond would be liable, even though the act was willful, wanton, or reckless.

The matter of determining the true facts, and the application of the instructions of the court regarding the law, to these facts, were functions to be performed by the trial jury. Because the jury had not been adequately instructed in the quoted principles of law, the Court of Appeals ordered a third trial.—JUDGE BARTLETT RUMMEL

Magar v. Hammond, N.Y., 64 NE 150, (1902); 76 NE 474, (1906).

National Matches Schedule

Dates of competitions and schools at Camp Perry, Ohio

THE 1963 Small Arms Firing Schools and National Matches will be fired at Camp Perry, Ohio, Aug. 2-Sept. 1.

The schedule is as follows:

Aug. 2-4—Small Arms Firing School, Pistol (including special Police School)

Aug. 5—Pistol Warm-up Matches

Aug. 6-8—Pistol Individual Matches

Aug. 9—NRA Pistol Team Matches

Aug. 10—National Trophy Pistol Individual and Team Matches

Aug. 10-15—Instructor-Junior School

Aug. 11—Smallbore Rifle Practice

Aug. 11-16—Smallbore Rifle Matches

Aug. 18-21—Small Arms Firing School, Rifle

Aug. 22—High Power Rifle Warm-up Matches

Aug. 23-27—High Power Rifle Individual Matches

Aug. 28-29—National Trophy Rifle Individual Match

Aug. 30—High Power Rifle NRA Team Matches

Aug. 31—National Trophy Rifle Team Match

Sept. 1—Infantry Trophy Team Match

Family housing during the pistol and high power rifle matches will be limited to the capacity of Squaw Camp. Requests for family housing during the 1963 National Matches are to be sent to the Camp Perry Club House Manager, Headquarters, Ohio National Guard, Ft. Hayes, Columbus, Ohio, and not to the National Match Billeting Officer as in the past. All family housing requests must include the arrival and departure dates and the number of occupants. Family housing reservation forms will not be included

as a part of the regular 1963 housing request card.

The 1963 Championship Aggregates for all 3 types of competition will be the same as they were for 1962. These are the 2700-point 3-gun aggregate for pistol, 4800-point prone aggregate and 1600-point position aggregate for smallbore rifle, and an 800-point aggregate for both Service rifle and bolt rifle championships.

Warm-up matches

Pistol and high power rifle competitors will have warm-up matches as a part of the entry package and smallbore shooters will have squadded practice the afternoon of Aug. 11.

The daily firing plans for all 3 phases of shooting will generally follow those used for the 1962 National Matches. Smallbore rifle will be scheduled with 3 prone matches and one position match daily, and the pistol competitors will be squadded in 4 relays for the individual matches.

Awards planned for 1963 include a further increase in the number of trophy guns, telescopes, and rifle cases.

Range limitations make it necessary again to limit entries in the Leech Cup Match (high power) to those with Master and Expert classification cards. The Wimbledon Cup Match entry will be limited, as was done before, to holders of Master, Expert, and Sharpshooter classification cards.

A team of special instructors from the Army Infantry School and the Marksmanship Training Unit at Ft. Benning, Ga., plus individuals selected from each Service rifle and pistol team, will conduct the Schools for the Serv-

ice rifle and pistol. Inexperienced students in the Pistol School will shoot cal. .22 pistols. The Police School will be conducted by a team of specially selected instructors. The NRA Instructor-Junior School will include special instruction and training for NRA instructors. Students in the Junior School will be limited to those who are under 19 years old.

Advance entry will be required for all individual matches and the schools. Special entry cards will be distributed with National Match programs. These special entry cards must be used for individual matches and entry fees must accompany the entry cards. Entry in the team matches will be made at Camp Perry. No fees are charged for the Schools, and the ammunition that will be fired during instruction is furnished by the National Board for the Promotion of Rifle Practice.

Entry closing dates

Entry closing dates for the matches and schools of each phase are:

Pistol—Monday, July 22

Smallbore Rifle—Thursday, Aug. 1

High Power Rifle—Saturday, Aug. 10

The 1963 National Matches program will be mailed to all civilian, National Guard, and Reserve competitors who attended the 1962 Nationals. The Dept. of Defense will make distribution to the Armed Services. If you are a civilian and did not go to Perry last year but plan to go in 1963, request a National Matches program from the NRA Program Division. Programs will be ready for mailing early in June. ■



What the Lawmakers Are Doing

THE role played by the shooter-sportsman in the field of firearms legislation is becoming more apparent to lawmakers, particularly on the state level. Time and again, sportsmen's organizations and individual gun owners have stepped forward to be counted among those interested citizens that either oppose or are in favor of specific legislation that would tend to affect their rights to keep and bear arms.

This point was never more clearly emphasized than in the State of Maryland where there was recently introduced a bill that would, among other things, require the registration of all privately owned handguns.

Shortly after the introduction of this bill, a copy was received and analyzed by the NRA Legislative Service. A special mailing was made to inform all NRA members and clubs in Maryland of the contents of the bill, its relationship to existing law, and its effect on the rights of the law-abiding citizen.

Upon receipt of the Legislative Bulletin, sportsmen, gun owners, and even law-enforcement officials swung into action. In many instances, protest to the bill was voiced by the man who kept a gun at home only for self- and property-protection.

The effect of these expressions of opinion on the State Delegates was overwhelming. The State House was deluged with telephone calls and telegrams. An open hearing had been scheduled to consider the bill, but it was cancelled when the House Committee to which the bill had been referred gave it an unfavorable vote during an executive meeting. The unfavorable committee vote removed the bill from any further consideration by the entire House of Delegates.

In this instance, the praise is due the individual and club members of the NRA living in Maryland. Their immediate reaction to a completely bad and unenforceable bill not only served to defeat that particular proposal but also illustrated, again, the importance of the voice of the people and its effect on their elected representatives.

The same story has been repeated many times in the past by sportsmen living in all of the 50 states.

Because of the sportsman's intense

regard for the protection of his right to keep and bear arms, that right has been preserved since the early days of our country.

The following bills have been introduced since our last report:

Arizona

House Bill 25, by Archie Ryan, requires the fingerprinting by the sheriff of a firearms purchaser, together with a 3-day waiting period between the time of application and delivery. The bill was killed by Committee.

Connecticut

House Bill 2574, by L. Richard Belden, furthers equity and justice for, and avoids harassment of, suitable persons interested legitimately in the use of firearms and weapons for no improper purpose. Referred to the House Committee on General Law.

House Bill 2956, by Alfred Michalski, prohibits the shooting at deer being pursued by dogs. Referred to the House Committee on Fish and Game.

House Bill 2997, by G. Gordon Cowles and Robert F. Jones, prohibits the issuance of permits to carry sling shots, air rifles, or BB guns to children under 12 years of age or to persons of bad moral character and repeals the law providing for permits to carry dangerous weapons. Referred to the House Committee on the Judiciary.

Indiana

House Bill 1022, by L. Keith Bulen and John W. Donaldson, relates to the intent of carrying certain weapons with intent to injure another, with a provision for a prison term up to 180 days. Passed House.

Maine

Senate Bill 68, by Loren E. Kimball, establishes a State Hunters' Casualty Fund. Referred to the Senate Committee on Business Legislation.

Senate Bill 112, by Ralph W. Farris, relates to the investigation of hunting accidents. Referred to the Senate Committee on Legal Affairs.

Senate Bill 151, by Edward P. Cyr, requires a State license to sell firearms. Referred to the Senate Committee on Legal Affairs.

House Bill 116, by Richard P. Choate, pertains to the reporting by those who treat gunshot wounds. Referred to the House Committee on Legal Affairs.

House Bill 332, by Malcolm Berman, provides for training in the safe handling of firearms by certain minors. Referred to the House Committee on Inland Fisheries and Game.

House Bill 278, by Gerry Wade, clarifies the Inland Fish and Game laws with reference to boating and firearms. Referred to the House Committee on Inland Fisheries and Game.

Maryland

Senate Bill 126, by Frederick C. Malkus, prohibits hunting with a gun on the property of another during deer season without permission of the owner or person in possession of the property. Referred to the Senate Select Committee of Senators Malkus, Dean, and Nock.

House Bill 81, by Angelo F. Palmisano, requires approval by the State Police prior to the sale of a pistol by a dealer to a purchaser, together with provisions requiring the registration of all privately owned handguns. This bill received an **unfavorable report** by the House Judiciary Committee because of the overwhelming opposition voiced by the sportsmen and gun owners of the State.

House Bill 94, by Thomas L. Merryweather and Thomas H. Lowe, prohibits hunting with firearms by persons under 14 years of age unless accompanied by an adult. Referred to the House Committee on Agriculture and Natural Resources.

Massachusetts

Senate Bill 435, by Paul H. Benoit, prohibits the possession of firearms in motor boats during the migratory waterfowl season, except by law-enforcement officials discharging their official duties or by persons on their own land. Referred to the Joint Committee on Natural Resources.

House Bill 785, by Philip N. Carney, requires that physicians attending or treating gunshot wounds must report such treatment to the police. Referred to the Joint Committee on the Judiciary.

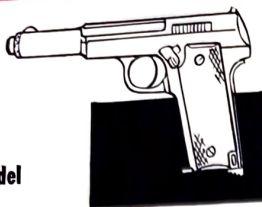
House Bill 1948, by Joseph T. Travaline, authorizes the issuance of a warrant to search a motor vehicle for certain property or articles. Referred to the Joint Committee on the Judiciary.

House Bill 2310, by William J. Kingston, requires that a hunting license bear upon its face the blood type of the licensee. Referred to the Joint Committee on Natural Resources.

House Bill 2548, by James C. Corcoran, prohibits the issuance of sporting or hunting licenses to any persons who are color blind. Referred to the Joint Committee on Natural Resources.

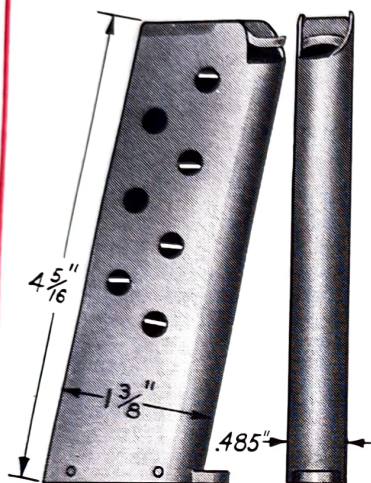
House Bill 2550, by Robert C. Hahn, requires all applications for a sporting and hunting license to be examined as to eyesight, for color blindness, and ability to handle firearms. Referred to the Joint Committee on Natural Resources.

Astra Model
400 Pistol

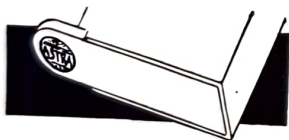


PISTOL MAGAZINES

One of a series



The Astra Model 400 is a unique automatic pistol. It was designed to fire several different cartridges, including the 9 mm. Bergmann-Bayard and .38 Colt Automatic round. Of blowback type, this pistol has a strong recoil spring and a very heavy slide to resist the recoiling forces of powerful cartridges. Unlike some Spanish pistols, the Astras are well made and finished.



Model 400 magazines can generally be recognized by the uncommonly wide cross-section necessary to handle the long cartridges. The Astra trademark, but not the model number, will usually be found on the tip of the magazine floorplate.



The right side of the magazine is cut lower than the left. This allows the tip of the follower to operate the hold-open device that holds the slide back when the last shot has been fired.—EDWARD J. HOFFSCHMIDT

Montana

Senate Bill 39, by Arnold Rieder, amends existing law to allow the use of firearms by a child under the age of 14 years when such child is in the company of the child's parent or guardian or under the child's supervision of a qualified firearms safety instructor who has been duly authorized by such parent or guardian. Referred to the Senate Committee on Public Health.

New Hampshire

Senate Bill 3, by Margaret B. DeLude, permits the hunting of deer with muzzle-loaders. Referred to the Senate Committee on Fisheries and Game.

New Jersey

Assembly Bill 24, by William V. Musto and Frederick H. Houser, forbids the sale of paper caps for toy guns. Referred to the Assembly Committee on Public Safety, Defense and Veteran Affairs.

Assembly Bill 78, by Jerome Kruger et al., includes gas guns under the definition of weapons in connection with charges of armed robbery. Referred to the Assembly Committee on Revision and Amendment of Laws.

Assembly Bill 178, by Joseph C. Doren, provides for a \$5 fee for firearm hunting and trapping licenses and bow and arrow hunting licenses and a \$4 fee for resident fishing licenses together with an issuance fee of 15¢ in each case, and that all such licenses shall be issued free to residents of the State 65 years of age or over. Referred to the Assembly Committee on Agriculture and Education.

Assembly Bill 235, by G. Edward Koenig and Joseph Minnotty, permits county sheriffs rather than county judges to issue permits for the purchase of a pistol or revolver. Referred to the Assembly on Revision and Amendment of Laws.

New York

Senate Bill 1141, by Barber B. Conable, Jr. (same as **Assembly Bill 1581**, by Alonzo L. Waters), prohibits a person from discharging firearms or long bow within 500 ft. of a school, playground, factory, church, shopping plaza, or other public building. Referred to the Committee on Conservation in both houses.

Senate Bill 1145, by Thomas Laverne (same as **Assembly Bill 1547**, by S. William Rosenberg), prohibits the discharge of a firearm within 1500 ft. of a school building when such building or appurtenant lands are being used for instructional purposes, recreational or athletic activities. Referred to the Committee on Conservation in both houses.

Senate Bill 1266, by E. Ogden Bush (same as **Assembly Bill 1852**, by Leo A. Lawrence), provides that a person's hunting license may be revoked for negligently and wantonly firing a gun as to destroy or damage public or private property. Referred to the Committee on Conservation in both houses.

Assembly Bill 2305, by Alfred D. Lerner, fixes penalty for a person convicted of carrying a concealed weapon without a license as a felony with imprisonment for an indeterminate term but not more

than a maximum of 10 years. Referred to the Assembly Committee on Codes.

North Dakota

Senate Bill 55, by C. G. Kee and Roland Redlin, provides for completion of an approved course in firearms safety before issuance of a hunting license to a person 16 years of age or under. Referred to the Senate Committee on Natural Resources.

South Carolina

House Bill 1016, by J. Henry Stuckey, prohibits the sale of a handgun to any unemancipated minor. Referred to the House Committee on Military, Public and Municipal Affairs.

South Dakota

Senate Bill 70, by Lawrence E. Kayl, provides that a retail dealer's license (\$10) shall be obtained from the Secretary of State, and that every pistol sold shall have a serial number. Referred to the Senate Committee on the Judiciary.

Senate Bill 71, by Lawrence E. Kayl, changes the definition of a "pistol" from a firearm with a barrel less than 12" in length to a firearm with a barrel less than 16" in length. Referred to the Senate Committee on the Judiciary.

Senate Bill 72, by Lawrence E. Kayl, amends certain provisions pertaining to the registration of machine guns. Referred to the Senate Committee on the Judiciary.

Vermont

House Bill 7, by George S. Welch, prohibits any person, except a police officer on duty, from carrying or possessing in a motor vehicle any firearm with a cartridge in the firing chamber. Killed in the House.

West Virginia

House Bill 22, by Jack R. Nuzum, (a) eliminates the requirement of publication of intent to apply for a license to carry a handgun; (b) raises the bond requirement for a license from \$3500 to \$5000; (c) extends the life of a license to 2 years. Passed the House.

House Bill 116, by D. P. Givens and Daniel R. Mace, permits a licensed hunter over 21 years of age to obtain a permit from the sheriff for the carrying of a cal. .22 handgun while hunting. Referred to the House Committee on the Judiciary.

House Bill 137, by Thomas J. Hawse and William B. Slonaker, relates to hunting, trapping, and fishing on lands of another, and damages and compensation pertaining thereto. Referred to the House Committee on Game and Fish.

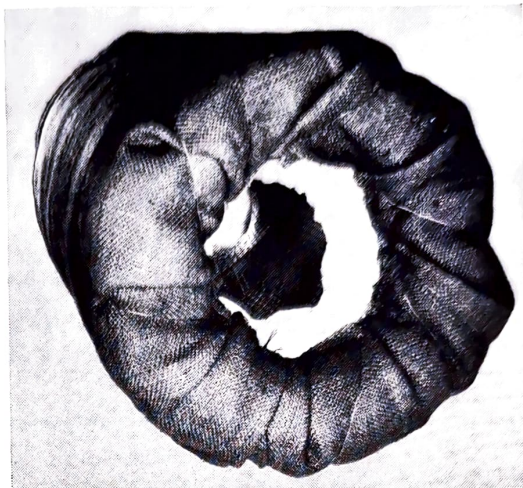
House Bill 142, by C. Berkley Lilly, permits the Director of Natural Resources to reinstate after one year the hunting license privilege of a person penalized for negligent shooting or wounding. Referred to the House Committee on Game and Fish.

Wyoming

House Bill 20, by Harry Barker, Jr. et al., revises the game and fish statutes of the State. Referred to Committee No. 11.

REDUCING NOISE IN A BASEMENT RANGE

By NRA TECHNICAL STAFF



THE installation of an indoor range is very often practicable even in the average home basement.

Detailed information on safe and satisfactory installations of this kind is given in the reprint "Part-Time Shooting Ranges", available for 25¢ from the Range Plans Section of the National Rifle Association, 1600 Rhode Island Ave., N.W., Washington 6, D. C. Still more information, including some outdoor range details but with increased material on indoor ranges also, is contained in the NRA publication "Range Construction, Part-Time and Special", price \$1.

Provided a safe and workable range can be fitted into the available space, the principal difficulty with home basement ranges is the amount of noise.

A limited amount of sound absorption can be obtained with rugs and wall hangings. However, this may not be sufficient to prevent annoyance to those upstairs, and in some basements such materials can hardly be used. The most efficient and effective method is to muffle the noise at its source.

The noise comes from both the gun and the bullet-stop.

Non-metallic bullet-stops for air, CO₂, and .22 rimfire weapons, as detailed in the above NRA publications, have the advantage of being quiet. Steel plate bullet-stops or bullet traps ring when struck. In NRA experiments, this sound was somewhat damped by wiring insulating board to all 4 sides of a heavy bullet trap. Effectiveness is improved by cementing the insulation to the steel surface. It has been reported that sandbags piled closely on the trap or steel plate are also effective.

For muffling the more important noise at the gun, the most convenient arrangement is a pair of sound absorbing boards hinged to the ceiling so that when lowered they hang close on each side of the gun

muzzle. The boards must be at least 4 ft. square, and constructed of acoustical tile cemented to Masonite or plywood sheet. (When purchasing acoustical tile for this purpose have the dealer recommend a type that has maximum sound deadening qualities.) Handguns should be held entirely within the boards. This arrangement is adequate only when a limited amount of sound reduction is sufficient.

The muffling can be improved by making up such sound-absorbing boards in a long box. For smallbore rifle firing, a box one ft. square and 4 ft. long is adequate. This requires 4 acoustical tiles on each of the 4 sides and one on each end. A larger box is necessary for center-fire handgun shooting because for effectiveness the gun must be held with at least its barrel inside the box. With either size, the end holes of the boxes must be kept as small as practicable.

Noise reduction effective

A box of this kind lowers the pitch of the report, which makes it less disagreeable. The actual noise reduction has been estimated by one user, after careful trials, at as much as 50% in the case of .22 target handguns of standard barrel length, to only 20% with .45 ACP full loads.

A large box on this system, measuring 2 ft. square by 4 ft. long, was tested by the NRA Technical Staff with target handguns in .22 long rifle, .38 Special, and .45 ACP. A marked noise reduction was obtained, but not nearly so great as with a muffler of the type next to be described. Also the size and weight of such a box are definite disadvantages.

A highly effective muffler is shown in the photograph. Its foundation is a 40" length of hardware cloth 36" wide. ("Hardware cloth" is a 1/2" wire mesh readily obtainable under that name at hardware stores.) Roll and fasten this ma-

terial into a cylinder 36" long and about 12" diameter. Into one end make 6 cuts evenly spaced, each 8" deep. Do the same at the other end, making the cuts 6" deep. Fold the segments inward like the ends of a fish trap, leaving a 4" and a 6" opening respectively. The overlapping cut segments should be stitched with light bell wire.

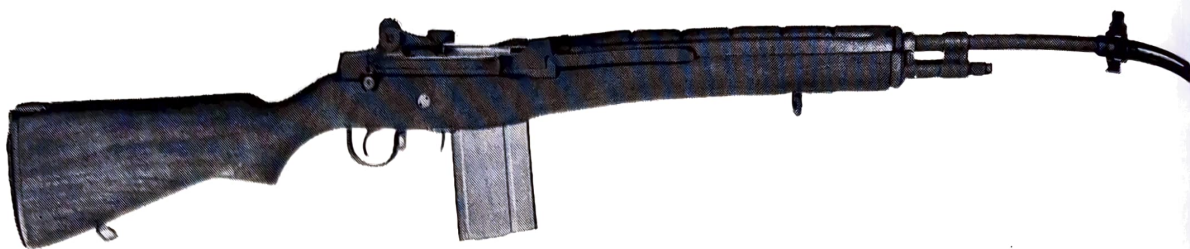
Wrap on a strip 3 ft. wide by 6 ft. long of Fiberglas insulation 1" thick, such as Sears Roebuck "Aerocar". This length will go around the cylinder almost twice. Hold the insulation in place with a layer of burlap. Then wrap on another length of the same insulation, and cover the whole with burlap, stitching in place with bell wire.

The completed muffler weighs a total of approximately 7 3/4 lbs.

In the judgment of observers stationed in an adjoining room, this muffler reduced the noise from .22, .38 Special, and .45 ACP target handguns by at least half, and also made it much less sharp and penetrating.

The sound-absorbing qualities of sponge rubber have been used by lining a cardboard barrel with it (see sketch). Sponge rubber taken from junked automobile seat cushions, and therefore low in cost, can be used. As in a box lined with acoustical tile, the ends as well as sides of the container must be lined, and end openings kept as small as possible.

All mufflers slowly accumulate unburned powder residue, in the same way that such residue accumulates on indoor range floors. In a closed muffler the eventual ignition of this material would be disconcerting and might amount to a serious explosion. A lined box should be built with one side removable for vacuum cleaning the lining at intervals. This is also provided for in the removable lid of a lined cardboard barrel. A muffler built up by wrapping insulation on a mesh form is not practicably demountable, and should simply be replaced after considerable service. ■



CIVILIAN MARKSMEN EVALUATE THE M14 RIFLE

Opinions on the M14 rifle formed by a group of high power rifle competitors who fired the rifle at targets over several months

DURING the April 1961 meeting of the National Board for the Promotion of Rifle Practice (NBPRP), it was suggested by Adm. Morton C. Mumma, NBPRP member and past president of the National Rifle Association of America, that the M14 rifle be evaluated from the civilian viewpoint by a panel of qualified NBPRP and NRA shooters.

With the approval of the Under Secretary of the Army, rifles were lent and ammunition supplied to 10 high power rifle marksmen selected by the Executive Staff of the NBPRP, as follows:

Harlon B. Carter—Member of the NRA Board of Directors and Executive Committee, and Chairman of the NRA High Power Rifle Committee.

Ted T. Cosby—Member of the NRA

Board of Directors and NRA High Power Rifle Committee.

R. Adm. Morton C. Mumma, Jr., USN (Ret'd)—Member of the NRA Executive Council and of the NBPRP.

Chester R. Paulson—Member of the NRA High Power Rifle Committee.

E. G. Pope—Member of the NRA Board of Directors and the NRA High Power Rifle Committee.

Irvine C. Porter—Member of the NRA Executive Council and of the NBPRP.

Dexter F. Rhodes—Member of the NRA Board of Directors and Executive Committee, and Vice-Chairman of the NRA High Power Rifle Committee.

Judge Bartlett Rummel—NRA Vice-President and NBPRP member.

John M. Schooley—NRA President and NBPRP member.

James C. Whitney—Member of the NRA Board of Directors and Executive Committee.

These are all outstanding competitors and are authorities in high power rifle marksmanship.

The rifles were selected from the production line at Springfield Armory, and the 7.62 mm. ammunition was taken from Army issue stocks. Both rifles and ammunition were strictly Service type, no National Match production being available. The rifles and ammunition were turned over to the members of the group for them to test in whatever place, time, and manner they chose. The rifles were made avail-

able about Sept. 1, 1961, for use until the end of the year, and the availability was extended to March 1962 when requested by individuals.

The group members were asked for their comments after the tests. It was stressed that any constructive criticism would be welcome and that the evaluators pull no punches in expressing their personal opinions.

The evaluators all responded with thorough and detailed reports of their tests and conclusions. Copies of their reports to the Army authorities were furnished the National Rifle Association. From these copies the most significant features are summarized below.



Harlon B. Carter

—The rifle was fired 4 times over the National Match course, for 14 strings of 10 shots each at 200 and 300 yds., and additional informal firing to ascertain whether it would be possible to jam it by speed of semi-automatic operation. First firing was done by myself and nationally known champions Martin J. Hull, Richard K. Ilao, and Elmer Shook. The best shooting was done by Ilao, with 20-shot strings on the A target of 200 yds. offhand, 97; 200 yds. rapid-fire sitting, 99; and 300 yds. rapid-fire prone, 95. This is good shooting with

Specifications

7.62 MM. RIFLE M14

Mechanism Type: Gas operated, semi- and full-automatic, detachable box magazine
Caliber: 7.62 mm. NATO
Weight: 9.0 lbs. with empty magazine
Barrel Length: 22"
Over-All Length: 44½"
Magazine Capacity: 20 rounds
Stock Dimensions: Length of pull 13¼" (with butt hook down), drop at comb 2¼", drop at heel 2½", pitch down 1½"
Sights: Guarded post front, guarded aperture rear adjustable for elevation and windage in one-minute clicks
Sight Radius: 26¾"
Rifling: 4-groove, right twist, one turn in 12"
Accessories: Selector (for semi- and full-automatic firing), hinged butt hook, sling, bayonet, bipod, blank firing attachment, breech shield, grenade discharger, maintenance-repair kit (under butt trap)

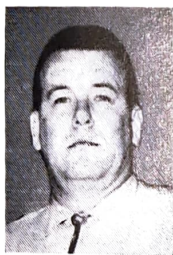
any weapon and is remarkable with a military-type weapon neither modified nor tuned up. The rifle was entirely dependable and pleasant to shoot.

These shooters used a handload consisting of the 125-gr. Sierra bullet and 45 grs. Western Ball Powder from .30-'06 military ammunition. With this load, they felt the groups were about half the size of those obtained from issue ball ammunition.

Four times through the National Match course gave me 230, 225, 224, and 223. After a disappointing start with issue ball ammunition, the 600-yd. portion of these firings was recommenced and completed with 173-gr. FA Match bullet and 44 grs. Western Ball Powder taken from .30-'06 military ammunition. For comparison, my average during last year of competition (1957) with M1 rifle, tuned up and glass bedded by a good military armorer, and firing match or handloaded ammunition, was 241.4.

Mr. Ilao reports his average with his excellent Model 70 match rifle in the same caliber is approximately 243. Thus the scores he obtained with the M14 on the first day we tried it are approximately equal to the match rifle, and indeed in his hands the M14 performed as a real match rifle.

We conclude that the M14 should be an excellent military rifle. With some degree of selection and tuning, and with accurate ammunition, it will perform excellently as a match rifle over existing military courses of fire.



Ted T. Cosby—
I had the rifle fired by several shooters, including Master, Expert, Sharpshooter, and one Junior, in addition to myself. Their

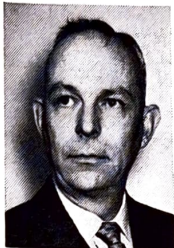
comments from both examination and firing were all favorable.

The first impression was that the magazine would interfere with position firing. This proved to be true only in the standing position. Reloading the magazine from 5-round clips seemed harder than with the Springfield or M70. The M1 rifle is easier to load with its 8-shot clip.

In initial firing the center of impact tended to wander. Subsequently 2 shooters each fired the rifle 10 shots as rapidly as possible by fanning the trigger, both to get it bedded and to see its rapid-fire functioning capabilities. Thereafter the rifle put them exactly where you held them; there was no more wandering. Trigger pull was good for all shooters. The rifle shot as well in bad conditions

as in good. It was allowed to get wet while in use and with no particular care performed with complete satisfaction. It was allowed to stand after firing for a period of time, and without any cleaning or adjustments accurate firing was resumed with no trouble.

This rifle has done away with a lot of things that had to be doctored on the M1 for match shooting.



R. Adm. Morton C. Mumma, Jr., USN (Ret'd)—The rifle handles and feels better than the M1, probably because the center of gravity of the M14

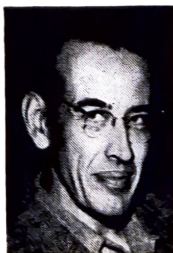
rifle is located farther to the rear.

After more than 20 shots sustained fire, heat waves from the handguard slots made obtaining a sight picture difficult—it is believed venting through side slots only would diffuse the heat waves away from line of sight. (*The handguard is now manufactured without slots.—Ed.*) Because of the depth of the rifle butt on my shoulder in firing positions I cannot use the butt prong. A number of shooters of different build had no trouble with it. I had to fire with right thumb along the stock to prevent face bruising. Only one shooter of small stature and short arms had difficulty with the long magazine.

The rifle functioned without fault. After difficulty in loading the magazines, 2 coils were cut off the spring in one magazine, which resulted in easier loading and no failure to feed in sustained fire. It would appear feasible to furnish pre-loaded disposable magazines.

The rifle loaned me was very disappointing in accuracy and could be termed unsatisfactory for even Service standards. Careful adjustment resulted in only little improvement.

However, 6 Marine Expert Riflemen and I fired 3 M14 rifles of the local USMC Reserve Unit, with my remaining issue ammunition, with very gratifying results in accuracy. Their 3 rifles also functioned perfectly. The only difficulty with them was the same one in loading the magazine.



Chester R. Paulson—Most of the competition shooters who had the opportunity to examine the rifle sent me liked the feel of the M14. It seems to balance better than the M1 and is

slightly lighter. I took the rifle apart and was very pleased with the bedding. The trigger mechanism, very similar to the M1, can be adjusted readily by an experienced ordnance man.

The first day I fired the M14 I was pleasantly surprised at the accuracy, very easily shooting a 48 at 600 yds. and calling the other 2 out. It shoots just as well for accuracy as the National Match M1 rifles I have fired.

I do have some criticisms of the M14 as a match rifle. The 20-shot magazine makes the rifle unhandy to fire both from sitting rapid-fire and from standing. I had trouble keeping my eye aligned with the rear sight due to the very low, thin comb. I believe the comb should be made about $\frac{3}{8}$ " higher. The stock also is somewhat too short for me. The rear sight has the same coarse one-minute adjustment as the M1, and I believe it would not have increased the cost much to put on $\frac{1}{2}$ -minute clicks.

I believe the civilian shooter will welcome the M14 rifle as a match weapon superior to the M1 in all phases, except possibly the 1000-yd. where the .30-'06 cartridge will give better wind bucking.

I am returning the M14 rifle very reluctantly, as I have come to like this rifle very much.



E. G. Pope—
The accuracy of the rifle with the ammunition furnished was very poor. From sandbag rest the gun and ammunition would not

shoot in the 12" black at 200 yds. At 600 yds., I used a handload with the 168-gr. Sierra International Match bullet for a score of 94. I also loaded some 125-gr. bullets which cut the groups almost in half.

The rifle is easy to shoot and handles well, better than any military rifle I have ever shot. It settles back into place exceedingly well in sustained fire. I had not a single malfunction during the firing of more than 500 rounds.

On this particular rifle the 200-yd. zero was 18 clicks up from the bottom. I see no reason why the front sight could not be of height to make the 200 yd. zero some 4 or 5 clicks. This would allow the shooter's face to be placed more firmly on the stock.

Some simple method should be developed, if it has not been done already, to keep the receiver tight in the stock. We know what happened to the Springfield with loose guard screws or the M1 floating around in the stock.

I received many favorable comments on the rifle from shooters and the public. I think it is a good weapon and will continue to be improved.



Irvine C. Porter
—The rifle was fired standing, sitting, and prone at distances from 100 yds. to 600 yds., in slow-fire as well as sustained fire.

It is thought that at intervals the magazine bounced off the forearm during recoil action while firing in the prone position, resulting in an occasional misplaced shot. No difficulty was encountered with the magazine touching the forearm when shooting from the sitting or offhand positions.

The ability to load 5-shot clips directly into the action without removing the magazine was found to be a distinct advantage, although some stiffness was encountered in the magazine spring as the third and fourth clips were loaded.

The rifle averaged 94.99% in score for all 495 shots fired. There were 6 misses—one during initial sighting-in, and 5 at 600 yds. slow-fire when the action apparently shifted or re-positioned itself in the stock on the 152nd round. There were only eight 3's recorded—one during initial sighting-in, 4 during 90 rounds of sustained fire at 300 yds. under very unfavorable light conditions, and 3 remaining which are not readily explainable.

Performance during 20-shot sustained-fire strings was particularly impressive. The weapon is capable of extremely accurate sustained fire even under rather adverse conditions. For slow-fire, the trigger assembly should be worked down to closer tolerances, and the receiver should be glass-bedded. A narrower front sight of the National Match type, and a recessed rear aperture of slightly smaller diameter would improve target accuracy.

It is my conclusion that the weapon tested is vastly superior, at this stage of its development, to the M1 rifle which I test fired in 1939, and that any U. S. troops armed with the M14 will be capable of delivering very effective fire under practically every condition.

All that remains to be done, in my opinion, is to provide means for every physically fit male in the age bracket of 18-65 years to qualify annually at least as a Marksman with this fine weapon. Such an achievement will materially strengthen the physical as well as the mental and moral fiber of our nation, contributing greatly to its defense.



Dexter F. Rhodes—I was assisted by 3 NRA Expert class riflemen and 3 Master class riflemen, and I hold the classification of Master.

Each person fired 5 rounds for practice and sighting-in at each range, then fired for record at 200 yds. standing, 200 yds. rapid-fire, 300 yds. rapid-fire, and 500 yds. (20 shots) slow-fire. Average for the entire group was 228.7, in comparison with the same group's 1961 total average with National Match grade M1 rifles of 235.3.

Functioning of the rifle was perfect.

The participants liked the vented handguard. They desired a 10-shot magazine for tournament shooting. Personally I do not agree—we may have automatic fire matches, and the 20-round magazine is standard.



Judge Bartlett Rummel—I fired the rifle myself, and permitted other club members to handle and fire it. It never failed to operate in a mechanically perfect manner.

The M14 can be handled more easily and quickly than the M1 rifle.

At 600 yds., where such a change would become readily apparent, at no time did I detect any change in point of impact. The rifle did very well indeed at the shorter ranges during rapid-fire. In my opinion, possibilities in the rapid-fire matches will be extremely frequent.

The hinged buttplate worked very well during rapid-fire shooting to keep the butt of the rifle from slipping on the shoulder.

On the rifle furnished me there could have been some improvement in the trigger pull. Also the stock was a little short, and I experienced having my right thumb bump my nose when the thumb was placed around the stock. There was some complaint about the comb of the stock being too low.

My conclusion, and that of those who also handled and shot the rifle, was that it will lend itself very capably to match competition.

I am adding a report written by Mrs. Alice H. Bull, a Director of the National Rifle Association. Mrs. Bull is the first woman ever to receive the Distinguished Rifle award, and is an extremely experienced and qualified rifle shot. I asked her to make these observations.



Alice H. Bull—From the standpoint of training I believe the M14 rifle is superior to the M1 due to its more convenient size, lighter weight, reloading simpler to learn, and less fatigue in firing.

I like the M14 better as an offhand rifle than the M1, even though I have shot many scores in the high 90's and have a 20-shot possible in the standing position with the M1. The balance and lighter weight of the M14 should produce more high scores than we have with the M1, although the latter has been a popular offhand match rifle.

The leanness of the M14 stock makes people think it is smaller than the M1. This stock makes the M14 fit better and feel better to me. Some shooters believe the M14 stock comb should be higher to bring the eye closer in line with the sight. The slenderness of the comb compared to the broad, heavy stock of the M1 probably causes that feeling.

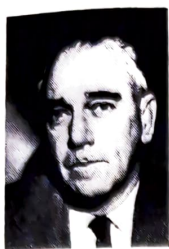
The 20-shot magazine should be shortened for training and match firing. Holding the rifle at the balance point offhand is interfered with by the long magazine, and it can be very uncomfortable in the sitting and prone positions.

The rifle shot amazingly well with the small bullet. Firing in a 10-mile wind at 600 yds., with poor visibility, I scored a 49-6V, calling the shot which was out. In rapid-fire at 200 yds., in good weather and light conditions, possibilities were frequent, with some 6V to 8V groups. The rifle shoots well enough to justify using half-minute clicks for windage and elevation on the rear sight.

This is a fine rifle for the National Match Course, except that a few more seconds might need to be allowed for reloading with 5-shot clips, as the 8-shot M1 rifle clip loads into the M1 rifle faster than the 5-shot clip into the M14.

The steel 5-shot clips in which the cartridges are supplied need small tips added to them to prevent the end cartridge dropping off. Very tight clip springs are not a solution as then the cartridges will not strip out properly. Using different magazines, I noticed considerable difference in the stiffness of the magazine spring, making some easier to load than others.

I am very pleased with the performance of the M14 rifle from my experience. Key item for the match shooter and trainee would be the shorter magazine. The present methods of training and the courses of fire will adapt very nicely to the new rifle.



John M. Schooley

—After sighting-in, I fired a 297 over the DCM qualification course, and this is very good for me since I am not in practice.

Group size at 200 yds. was excellent and would equal groups fired with any bolt-action piece I have ever owned.

I was impressed with the performance during sustained fire. Recoil appears much lighter and in a backward thrust, rather than upward. I think the M14 is much easier to hold on the target than the M1 rifle.

It was difficult to fire while wearing gloves, due to the small trigger guard, and I think the trigger guard should be enlarged for field use.

I would suggest a magazine be manufactured to hold 10 rounds instead of 20 for range use, as a 20-round magazine is rather awkward in some firing positions. I would also suggest a finer click adjustment for the rear sight, as the standard does not allow close adjustment desirable for target work.

I was greatly impressed with the performance of the rifle and did not experience one malfunction in the 500 rounds I fired.

Since its performance in my opinion far exceeds that of the M1 during its early life, I am convinced the M14 will prove a practical, efficient, and accurate piece for ground troops. I am equally certain that when available it will be well received by our civilian shooters.



James C. Whitney

—The rifle was shot by myself and 3 very competent high-power rifle shooters over the National Match Course as many

times as possible, and it was also shot in registered matches so the weapon would be available for inspection and comment by other civilian shooters.

The rifle handled very well and the recoil was very mild.

After firing at 200, 300, and 600 yds., we were much disappointed in the accuracy with issue ball ammunition. It was then decided to close the gas spindle and operate the rifle manually. The results were amazing. The next 10 shots were all in the black with a 4V count.

Several reloads were tried and 2 were settled on. The first was the 125-gr. Sierra bullet with 44 grs. of Ball Powder taken from military .30-06 am-

munition, for 200-yd. firing. The second was 43 grs. of the same powder with a 173-gr. boattail Match bullet.

The first 10-shot group at 200 yds., fired from bench rest, measured 3". We were very enthusiastic. The rifle was used in several matches with this reloaded ammunition, and the following scores were the best shot:

20 shot standing, 200 yds.—98

20 shots prone, 600 yds.—98 (11V)

National Match Course—244.

This rifle was examined by over 100 shooters and was received very enthusiastically. We who fired this weapon are convinced it is the finest production rifle ever produced, with proper ammunition. We all agreed that we had never seen issue ammunition perform so badly. Recommendations are to improve the ammunition, and to make this rifle available to the civilian shooter as soon as possible.

Conclusion

The desire most often expressed was for a 10-round magazine, to eliminate interference with the shooter's forward arm from the long 20-round magazine. This was desired for match shooting only, and in one case for instruction—it is realized the 20-round magazine is required for the rifle's basic military purpose. It was desired the magazines be easier to load.

Some users obtained excellent accuracy from the issue ammunition supplied, others very poor accuracy. In the latter cases, accuracy was obtained with suitable handloads, with exception of one rifle in which handloads were not tried. The reason for this variable experience with issue ammunition accuracy is not known.

On all other points the reaction was almost unanimously favorable. Especially commented on were ease of handling, excellent accuracy especially in sustained fire, complete reliability (not a single malfunction was reported), and suitability for match shooting with proper ammunition. The rifles tested were straight Service rifles, taken directly from the production line.

A National Match M14 rifle has been developed. It is assembled and adjusted for maximum accuracy, and is equipped with sights of target dimensions adjustable in half-minutes of angle in windage and elevation. A Match cartridge, loaded with 172-gr. boattail bullet like that of the M72 Match cartridge in cal. .30-06, has been developed for use with the National Match rifle.

Should the National Match rifle and ammunition be made available for sale through the Director of Civilian Marksmanship, NRA members will be informed in *THE RIFLEMAN*. ■

Illustrated Definitions

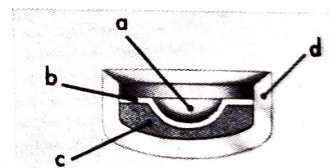
Simple and practical explanations of firearms and shooting terms, given as aids to identification and understanding. The definitions are not, and are not intended to be, technically or legally complete.



Length of pull—Distance from center-front of trigger to center-rear of buttplate, recoil pad, or buttstock. With a 2-trigger gun, length of pull is measured from front trigger.



Frizzen (battery)—That component of a flintlock or snaphaunce gun which is struck by the flint to produce sparks for igniting the priming powder. It is made of steel, and is pivoted to the outer forward part of the lockplate. It is integral with the pan cover in flintlock guns, and separate from the cover in snaphaunce guns.



Berdan primer—Primer consisting of a metal primer cup (d), priming composition (c), and composition protective disk of foil or other material (b). The anvil fits in the primer at (a) and is integral with the cartridge case and not part of the primer. This primer was developed in the late 1860's by A. C. Hobbs of Union Metallic Cartridge Co., but was named after Col. H. W. Berdan, U. S. Army, who worked with Hobbs on cartridge developments. Col. Berdan furnished the idea for the anvil. It was first used extensively in the 1870's. It was almost entirely discontinued in this country at the end of the blackpowder era, but is still the most extensively used primer in European cartridges.

COMBINATION TOOLS

By J. RICHARD SALZER

FOR EARLY U.S. MILITARY LONG ARMS

COMBINATION tools were issued to the soldier to facilitate authorized disassembly and reassembly of his piece required for its routine maintenance in garrison or in the field.

As recently as 1959, Francis Bannerman Sons advertised several of the combination tools illustrated in this article for as little as one dollar per dozen. Even now very few of the tools shown can be considered rare. Indeed, several can still be purchased at well under a

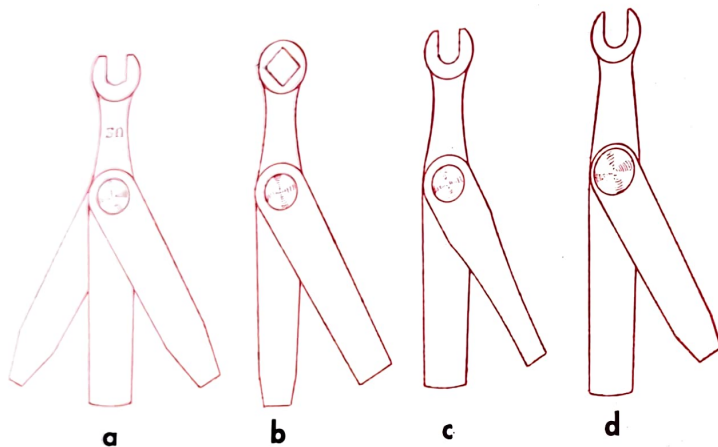
dollar each. Most collectors have accumulated a small assortment of these tools, either for their practical utility, or for the curiosity value such items have.

The tools shown have been identified from early arms manuals, through deduction, and through the efforts of Norman Romig who obtained quantities of them many years ago directly from Bannerman, Stokes-Kirk, and other military suppliers.

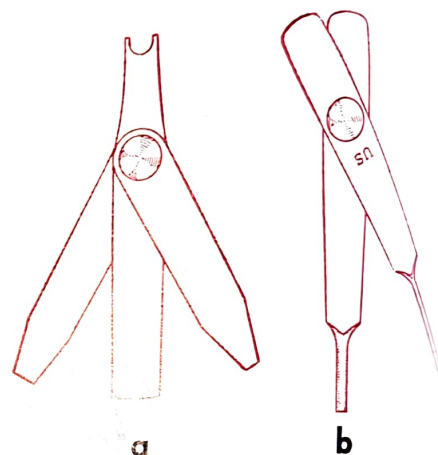
Many of these tools parted company

with the original arms during the depression years prior to World War II, a time when early breech-loaders were a drug on the market.

Many other types undoubtedly exist; positive references abound in primary source material covering early contracts for such arms as the Sharps, the Smith, and Gallagher carbines. Other arms, such as the Jenks mule-ear carbine, could not have been disassembled without a special wrench.

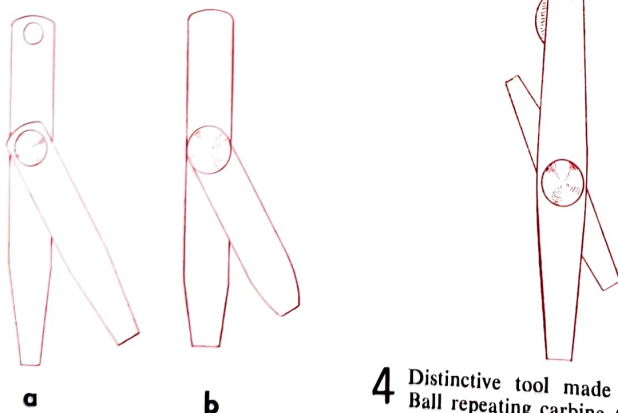


1 Assortment of combination nipple wrench-screwdriver tools for use with various models of rifle-musket and musket. These tools were made by several arms contractors, and considerable minor variations may be encountered. The sketch illustrates the 3 major variations (a, b, and c), and (d) indicates the type of deviation that may occur in any of the basic types



2 (a) A combination rear sight wrench-screwdriver adapted to the rear sight used extensively on rifle-muskets, Models 1855 through 1864. Probably not issued to line troops as a general practice, it was more likely issued to special armors attached for regimental duty.

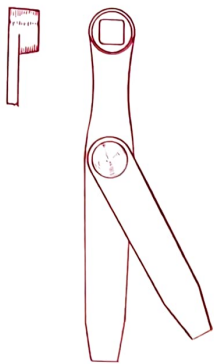
(b) This tool is known as a tumbler punch. It was issued on a limited basis starting about 1855 and continuing into the trapdoor Springfield era



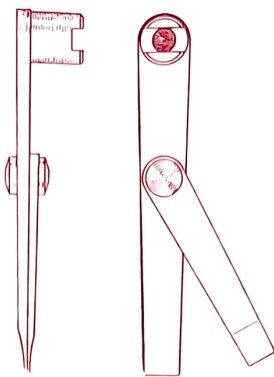
3 Tools issued with early Remington arms: (a) Civil War period Remington split-breech carbine; (b) Model 1870 Army pistol (rolling-block action)

4 Distinctive tool made for issue with Ball repeating carbine (1865). Readily identified by the right-angle screwdriver feature, this device is used to turn eccentric screwhead on the barrel band which allows the gun to be disassembled. This tool is polished and nicely heat blued

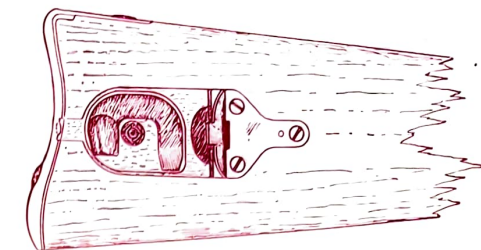
5 Tool made for issue with the Palmer carbine of the Civil War period, is also nicely finished and heat blued



6 This tool is usually identified as the Starr carbine tool, although it fits both Maynard and Sharps carbines far better than it fits the Starr



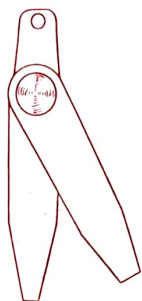
7 Combination nipple wrench-screwdriver for use with the Burnside carbine. The Burnside uses a peculiar nipple unlike the usual square shouldered nipple that is to be found on most arms



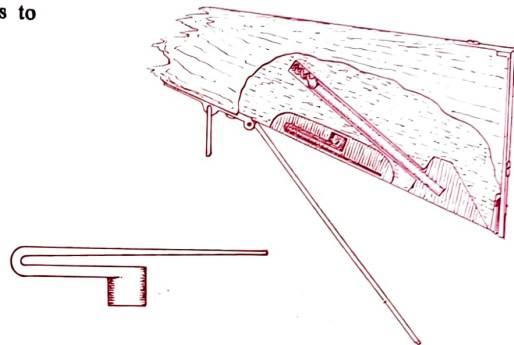
8 Simple tool carried in buttstock of the Merrill carbine is shown. The same tool, as well as a brass wiper, was carried in Merrill rifles



9 Combination tumbler punch-screwdriver used with various models of Peabody arms



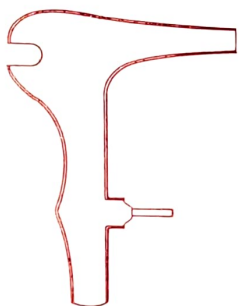
10 Simple screwdriver combination issued with Spencer arms



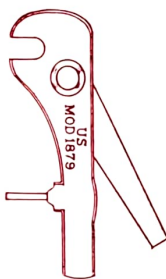
11 The seldom encountered Hall carbine tool. It is shown nested in the patchbox of a Model 1833 Hall carbine. Sketch may not be to scale



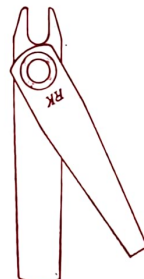
12 Tool used with Model 1817 rifle and carried in the buttstock of that arm. One end served as a screwdriver while the other end was used as a crossbolt to tighten the jaws of the hammer on the flint



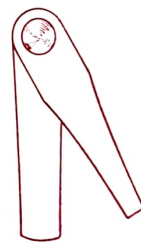
a



b



c



d

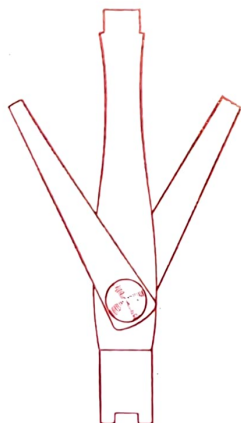
13 With the possible exception of (d), tools illustrated here were all used with various models of trapdoor Springfield.

(a) An experimental or limited production tool known as the Model 1874 is a combination screwdriver, mainspring vise, and tumbler punch. The mouthlike part of the tool was placed over the compressed mainspring, and when the sear was released, the tool held the mainspring, enabling it to be withdrawn for disassembly of the lock. Early open-end nipple wrenches could be used for the same purpose.

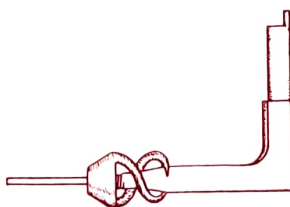
(b) Model 1879 combination tool carried in a compartment in the buttstock of several models of the trapdoor Springfield.

(c) A variant type, also used with various models of the trapdoor Springfield.

(d) Unidentified. May have been a fairly late issue tool, possibly for the Krag



14 Tool that was used with Colt revolving rifles and muskets



15 This odd tool was used with cal. .58 Lindsay 2-shot musket. It is a combination drift pin, mainspring wrench, and wiper. The eccentric pin at the upper side was inserted in a small hole above the mainspring and the tool twisted. This had a camming effect on the mainspring and permitted the hammers to be disconnected and lock to be disassembled

BEDDING

THE MAUSER-TYPE RIFLE

THE relative accuracy of the Mauser-type center-fire bolt-action rifle is impaired when the barrel and/or action do not fit the stock properly. The process of fitting the barrel and action assembly to the stock is called bedding.

It is often difficult to locate the site of a bedding fault and its effect is overshadowed when the ammunition used is inaccurate. Therefore, ammunition of good quality is required in detection and correction of bedding problems.

Also, faults may exist in the action or barrel which make the rifle imprecise and adjustments of the bedding will not correct them. The bedding suggestions given herein are based upon the assumption that no serious mechanical fault exists either in the barrel or in the action. They are orthodox and have proved successful in correcting bedding faults in many rifles.

At the shorter ranges, the properly bedded rifle of good quality in combination with accurate ammunition will usually group a series of hits in an approximately circular pattern. If the shot hole pattern is pleasingly small, no adjustment of the bedding is indicated. However, a bedding fault may exist if any of the following shot hole pattern characteristics is noted:

- (1) Pronounced horizontal, vertical, or diagonal dispersion,
- (2) Random grouping in combination with markedly wide shots,
- (3) Generally circular group, but with overly wide dispersion,
- (4) Day-to-day shift in the center of impact.

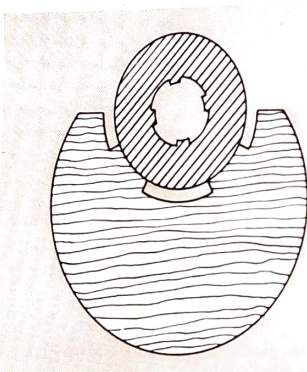
It is not always possible to study an abnormal shot group and then state positively where the fault lies. Rather, corrective action usually involves a trial and error approach in the hope that successive adjustments will make the rifle shoot better. It is best to make only one significant adjustment at a time so that its effect will be measurable in subsequent test firing. The only justification for making wholesale alterations in the bedding would be if initial inspection disclosed several obvious faults.

The oldest and least satisfactory method of bedding the barrel in the stock is the full-length bearing often used in conjunction with barrel bands which actually clamp the barrel to the

stock. Sometimes one or more screws are used to secure the barrel to the stock. This system, and variations of it, was used in stocking military rifles of the blackpowder and early smokeless powder eras. It was also used until fairly recently in stocking commercial sporting and target rifles. This system is now outmoded, but barrel screws are still commonly used in rifles developing heavy recoil.

Pressure-point system

In the so-called pressure-point system, the barrel is supported and aligned on short bearings in the fore-end channel. The wood adjacent to the bearings is relieved so that the barrel contacts the bearings only. Ordinarily, 2 bearings are used. The rear bearing contacts the barrel reinforce just forward of the receiver face. The front bearing contacts the barrel near the tip of the fore-end. The front bearing is normally adjusted to provide slight upward pressure against the barrel.



1 Barrel bearing near tip of fore-end is best made to give 2-point contact as shown. Length of 1" to 2" is adequate. Bearing can be made by gluing strips of hardwood in barrel channel; they should always be in rear of attached fore-end tip.

Initial fitting is done by applying thin coating of spotting color to barrel so high spots on bearing can be scraped or sanded away to give even impression and desired pressure. Bearing should be given light coating of powdered graphite prior to final assembly of barreled action in stock. Surfaces of bearing will glaze in subsequent shooting and high spots requiring additional cutting down will become evident

In recent years many shooters have discovered that their rifles give best results when the barrel is left completely free of the fore-end. This system is known as full-floating or free-floating and has proved quite effective with both sporting and target rifles. A prime advantage is that day-to-day warping of the fore-end cannot change the zero of the rifle by bending the barrel. The free-floating bedding system is not a cure-all, but will often give excellent results when the pressure-point system proves to be unsatisfactory.

The receiver of the bolt-action center-fire rifle must be secured to the stock in such manner that it cannot shift from shot to shot. In the Mauser-type rifle this is done with 2 or more guard screws in combination with the trigger guard and magazine box assembly. Or bushings may be provided as seats for the guard screws. A recoil lug on or adjacent to the receiver ring bears against a shoulder in the stock to restrict longitudinal movement of the barreled action in recoil. The bottom of the receiver that bears against the stock may be cylindrical or flat.

The critical bearing point is the recoil lug, which must be in full contact with the face of the recoil shoulder in the stock. No center-fire rifle will shoot well unless this bearing is perfect. Bottom surfaces of the receiver adjacent to the guard screws must also bear evenly and firmly against the stock. It matters little from the accuracy standpoint whether other parts of the receiver contact the stock.

The receiver bearings must be cut accurately so that the receiver lies square and is not sprung when the guard screws are drawn up snug.

Stockmakers often detach the receiver from the barrel so that these parts can be bedded separately. The receiver is bedded first. The barrel is then attached to the receiver and bedded.

Shims of thin cardboard or metal can be used to correct small faults in the receiver bedding. Major repairs, such as replacing the recoil shoulder or tang seat, are best done with glass bedding compound. The entire receiver and/or barrel can be bedded using this same compound.

Little can be done to improve the shooting qualities of the rifle stocked in

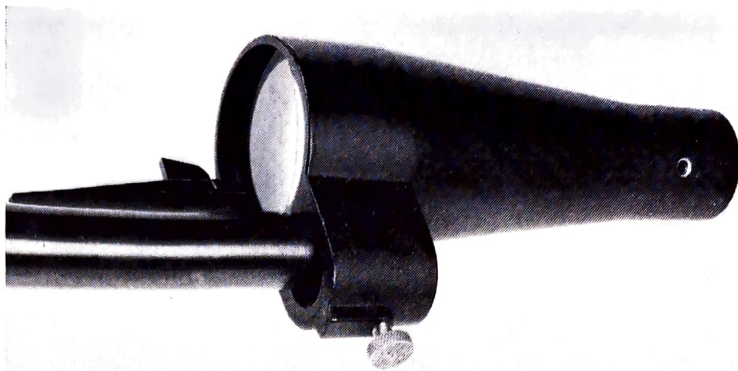
low-grade wood except to discard the stock and replace it with a better one. Soft, porous, oil-soaked wood will not withstand the pounding of heavy loads and is inclined to crush under guard screw tension so that bedding adjustments made have only transient value. Extensive reinforcement with glass bedding compound is required to salvage such a stock.

The receiver guard screws tend to loosen under shock of recoil or under conditions of low humidity and high temperature which cause the wood to shrink. The usual result is a falling off of accuracy which often takes the form of vertical stringing of the shots (when one guard screw is looser than the other), an occasional wide shot, or general enlargement of the entire group. Experienced riflemen always check guard screw tension prior to firing. These screws should be drawn up as evenly as possible. Tightening them in turn is advisable. The guard screws of Mauser military actions are often secured from rotation by small auxiliary locking screws which engage detents in the heads of the guard screws. These locking screws must be removed prior to checking guard screw tension.

Stringing

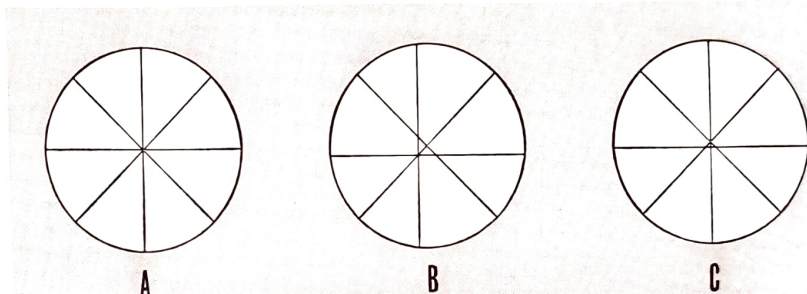
Horizontal or diagonal stringing of the shot groups, or day-to-day change in point of impact, is most often noted in rifles with pressure-point bedded barrels. Warping of the stock from variations in humidity will bend the heaviest barrel to some degree, and slender lightweight barrels are particularly susceptible. A change in point of impact is almost always experienced when such warping occurs. This condition may be exaggerated when the barrel is secured to the fore-end with a screw or tight band. Removal of the barrel screw and/or band is almost always helpful. Or the barrel band can be relieved so that it does not contact the barrel.

An uneven or excessively tight front barrel bearing will cause erratic grouping. It is difficult to obtain an even bearing unless a device such as the Sweany bore collimator is used. With this instrument, one can tell immediately when the barrel is bearing harder on one side than on the other as slight loosening and tightening of the front guard screw causes the reticle of the collimator to move in relation to the reticle of the telescope sight. It is thus possible to determine both the degree and direction of pressure applied by the front barrel bearing and the effect of corrective adjustment made is equally apparent. However, the Sweany collimator can be used for this purpose only on rifles fitted with receiver-mounted tele-



2 Sweany collimator is simple optical device incorporating a ground glass and reticle in combination with rod or spud which is inserted in muzzle end of the barrel. It provides means for making line of bore and line of sight parallel in both planes.

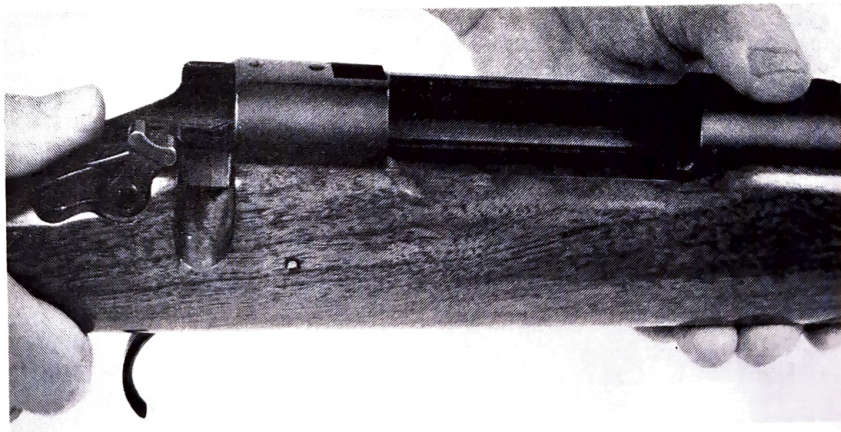
In use, the operator sees reticle of the telescope sight superimposed on reticle of the collimator. Any bending of the barrel will shift reticle of the collimator in relation to reticle of the telescope sight



3 Sweany bore collimator can be used to obtain even bearing pressure at tip of fore-end in rifles fitted with telescope sights. Procedure is as follows: (1) Remove barreled action from stock, insert collimator in barrel muzzle, and adjust telescope reticle until it is centered on collimator reticle as shown in A. (2) Replace barreled action in stock and draw up guard screws.

Collimator reticle will be displaced in relation to telescope reticle, typical movement being shown in B. Muzzle end of barrel has been forced up and to the right. Bearing must be adjusted by trial until reticle relationship shown in C is obtained. Bearing exerts upward pressure against barrel, so center of collimator reticle will be directly above center of telescope reticle

4 With trigger guard and magazine assemblies removed, check bedding of receiver in stock to note if alternate thumb pressure on tang and receiver ring will cause receiver to rock back and forth. If it does, receiver requires rebedding. Fault usually lies in tang area, which is most likely to crush under guard screw pressure



AMERICA'S LEADING GUNSMITHS

One of a series

Dale M. Guise

GUNSMITH Dale M. Guise, 35, of Gardners, Pa., has 2 sons, but whether they will follow in their father's footsteps is, at this time, purely academic. The reason is that the senior happens to be just 5 years old. Nevertheless, the chances are probably pretty good because Dale's wife,



Betty, helps out both in the work and the management, making it, says the owner, "a family affair".

Although Guise, born Mar. 12, 1928, has been a full-time professional gunsmith for 15 years, he is one of the youngest men in the business with such a long period of service.

"This is work I like to do," he says. "Sure, it has many pitfalls, but what work doesn't? I put in an average of 10 to 12 hours daily, but I'm my own boss. Since my combination shop and store is in my own basement, there are no transportation costs to and from work."

Long work days, however, do not seem to have affected Dale's shooting very much. His main hobby is pistol competition, and he has held a Lifetime Master's rating since 1960. He competes with the York-Adams Club of the William Penn League.

"I also love to hunt," he admits, "but my work interferes."

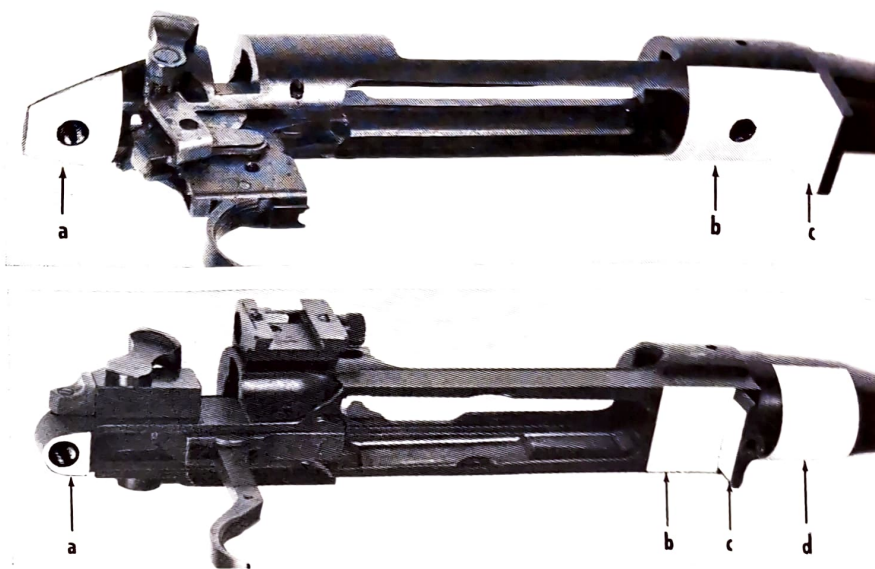
As did the majority of his fellow professionals, he broke into gunsmithing as an amateur. Except for a year each of metal and wood shop in high school, he is self-taught.

A native of Adams County, Pa., he grew up on a farm and worked with his father, plus doing odd jobs, until he hobbyed his way into the gun business in 1948.

For the first half of his professional career, he did general gunsmithing. Then, in 1955, he added a specialty. With his interest in handguns, you might think that would be a likely line, but instead he choose to turn out left-hand conversions of Remington rifles.

Dale Guise believes that anyone planning a career similar to his should first attend a gunsmithing trade school, gain practical experience in a metal shop, and acquire a "business administration course of some sort".

Because he considers the work financially rewarding, Guise says he would like to have his own boys take it up. By the time that event occurs, the "Old Man" will undoubtedly have additional words of fatherly advice.



5 Critical bedding areas on cylindrical receiver (top) and flat-bottom receiver (bottom) which must contact stock intimately are: undersurfaces of tang (a) and receiver ring (b), and rear face of recoil lug (c). Bearing (d) on barrel reinforce may be provided when remainder of barrel is left full floating or with pressure bearing near fore-end tip. The receiver may be bedded full-length and along sides, but bedding the areas that are indicated is the most important.

scope sights and it is relatively expensive.

Surface of the barrel engaging the front barrel bearing should be polished. An occasional application of powdered graphite to the bearing will help to prevent binding and will also aid in burnishing and waterproofing it.

A front bearing pressure of from 5 to 10 lbs. will prove satisfactory with most rifles and can be measured with an ordinary spring scale. To do this, clamp the fore-end of the rifle in a vise and then insert a piece of cellophane between barrel and bearing. Hook the spring scale to the barrel and pull the scale upward and away from the barrel with one hand while pulling on the cellophane with the other. The scale reading noted when the cellophane is released is the bearing pressure indicated in pounds.

Shimming and sanding

Bearing pressure can be increased by inserting thin paper or metal shims between bearing and barrel. It can be reduced by sanding or scraping wood from the bearing surfaces, or by inserting shims under the receiver to elevate the entire barrel and action assembly in the stock. Shimming of the receiver provides a quick means of determining whether a rifle shoots better with pressure-bedded or full-floated barrel.

The rear face of the magazine box should not contact the stock mortise. A tight bearing here can force the receiver recoil lug forward and out of engagement with the stock recoil shoulder

when the guard screws are tightened. In short, the magazine box should not be used as an auxiliary recoil lug.

Clearance must be provided in rear of the receiver tang when the tang has a vertical face recessed into the stock. The stock is likely to split unless this clearance is provided. It does not have to be so great as to be unsightly.

Sufficient clearance should be provided around the bolt handle so that it does not touch the stock at any point when the bolt is closed.

Swivel screws or escutcheons located in the barrel channel should be ground down so that the barrel cannot possibly contact them.

A slight clearance should exist between top edge of the magazine box and lower surface of the receiver. Provision of this clearance insures adequate compression of the wood between receiver and trigger guard.

Care must be taken that receiver guard screws do not bottom in their holes. Existence of this condition may be suspected when the screw comes to a sudden stop and therefore cannot be tightened further.

While not concerned directly with the bedding process, it should be noted that some rifles with lightweight barrels do not shoot well when fitted with heavy target-type telescope sights requiring installation of the front base on the barrel. Bedding alterations will not prove helpful. The only practicable solution to this is the use of a receiver-mounted telescope sight.

SPORTERIFLE

A MATCH PROGRAM WITH .22 PLINKING RIFLES



Members of Lockport, N.Y., Conservation Club demonstrate Sporterifle competition. Ten clubs and 150 individuals compete in a 20-match schedule

By OLIN G. LEROY

BECAUSE of ordinances crowding plinking and hunting rifles from large areas around cities and towns, the casual use of rifles is slowly being stymied. As a result, people in shooting clubs and sportsmen's organizations are building new ranges and devising programs to encourage membership and participation.

However, the transition from hill-and-dale field shooting to the confines of a rifle range has always been rather difficult. Many plinkers, small-game hunters, and others who like to shoot, have been reluctant to join a club, shoot at precision targets, and have their scores exposed. Accordingly, in 1957, the New York State Rifle & Pistol Association established a light rifle division as another approach, a stepping-stone program of cal. .22 rifle competition known as Sporterifle.

After months of deliberation, rules were formulated, and the Central Western New York Sporterifle Association was founded to put the plan in practice, beginning with the Rochester Rifle Club. The match schedule was soon arranged and brochures mailed to several sportsmen's groups across the State. Sporterifle was on its way with new shooters and new clubs.

Aided by a similar Canadian program and a target that fitted the needs, Sporterifle was perfected and put into operation on a postal league basis, using a minimum of inexpensive equipment and also very little regimentation.

The rifle used in Sporterifle is the cal. .22 rimfire, weighing not more than 7 lbs. Rifle-holding aids, slings, and telescopic sights of more than 6-power are not allowed. The rifle must be loaded single-

shot. The position used is standing: Erect on both feet, no other portion of the body touching any supporting surface, rifle held by both hands and one shoulder only, forward arm or elbow must not be pressed against the body at any point, and forward hand must be placed ahead of the trigger guard.

The course of fire is 30 shots at 50 ft., indoors or out, 10 shots on each of 3 official NRA A-32 targets or equivalent. A match is the 30-shot course fired shoulder-to-shoulder by all members of the club, the 5 high to count for team score. Competition is governed by the official smallbore rules and regulations of the NRA.

In the CWNYS Sporterifle Association competition begins in October and continues for 20 weeks. Members of each club fire 30 shots for record once a week on the home range for a possible 300 points, the team total being a possible 1500 points. Scores are recorded and then mailed to the Secretary of the Association for compiling with scores from other clubs. This postal match procedure eliminates the need for travel between widely separated clubs, and is universally approved.

The averages are computed for both teams and individuals, and printed in a weekly bulletin. To eliminate handicapping, competitors are listed in 5 classes designed for Sporterifle only: Master, 285 and above; Expert, 275 to 284; Sharpshooter, 265 to 274. Marksman, 245 to 264; and Tyro, 225 to 244. Classification may change after any match, except that no competitor is placed in a lower class after firing 40% of the schedule. Scores less than 225 are given the value 225 for all records.

The bulletin is mailed each week to every shooter, a service vital to the job

of maintaining interest.

Financially, the Association is self-supporting. The money comes from a single range fee, 25¢ per week for each competitor, collected by the clubs and forwarded to the Treasurer to pay expenses and purchase trophies for the final shoot-off. This is a big tournament in which all clubs fire shoulder-to-shoulder for team and individual championships.

The Association has been quite successful in persuading people to form clubs and get into competition. Yet in the New York State area, Sporterifle has barely scratched the surface of a great potential—the legions of men and women who have never fired a rifle in competition. And the reason is simple. The public sees little value in club membership or in the benefits that come from competitive shooting.

People who do participate in Sporterifle see the advantages. Good shooting habits are learned, marksmanship is improved, and the safe handling of firearms is emphasized. They find the equipment is simple and inexpensive, so they join a club and start shooting, mostly in the Tyro class with others of the same ability. The target has a big 9-ring which makes for good scores and gives encouragement to beginners, after which the 10-ring becomes a challenge all the way to the Master class where only 3% make the grade.

Standing to shoot is ideal practice for hunters of both large and small game. Many in Sporterifle have told of their better marksmanship in the field, how they have wasted fewer shots and crippled less game. It is a real boost to conservation. This program is not only fun and inexpensive, but it can make an important contribution to the understanding of the shooting game in general. ■

Typical cal. .22 rifles used in Sporterifle matches are (l. to r.) Savage 23A, Winchester 69A, Martini (customized), Anschütz Sporter, Remington 11, and Remington 513S. Slings and over 6-power telescopic sights are not allowed



Good scores are made by the shooter who is thoroughly trained, and who has a good technique of fire, an accurate rifle-ammunition combination, and ability in wind doping

YOU CAN BE A MASTER SMALLBORE RIFLEMAN

Part 3 of 3 •

By L. F. MOORE

It is helpful to review the fundamentals of marksmanship periodically. The firing position should permit steady holding without excessive fatigue. If the holding error is large, or the individual is conscious of effort in attempting to hold the rifle steady or on the target, the position is wrong and the individual should spend additional time experimenting to find a more suitable one.

Sighting is accomplished without great effort or fatigue. If fatigue results from firing with metallic sights, it is probable that the aperture sizes are incorrect for the conditions. Additional effort should be directed toward selecting more suitable aperture sizes.

While the practice of holding so that the bullseye is not in the center of the apertures to allow for wind changes is used by some shooters, a smaller sighting error can be maintained by adjusting the rear sight for windage correction and holding the bull in the center of the apertures. Trigger operation should be coordinated with breathing and sighting, and effort maintained to use a fast and smooth trigger squeeze which does not affect the holding or follow-through. Should the individual find that he has trouble operating the trigger, it is well to spend additional time experimenting to find a more desirable position of the hand on the stock, and in training to develop more effective trigger operation.

After a review of the fundamentals of marksmanship, it is well to consider other areas which may add points to the match score. Give some thought to the magnitude of the errors which contribute to shot dispersion on the target. These errors can be separated into 3 groups; sighting and holding, rifle and ammunition, and wind correction. Special effort should be directed toward reducing the largest error.

The sighting error of most riflemen is

small when compared with the holding error. It is possible to estimate holding error by observing the sight alignment during firing and especially at the instant the shot is fired. The holding error can be reduced by training with a particular rifle or it may be possible to reduce it by using a rifle having a more suitable weight, configuration, or center of gravity. A properly fitting stock not only permits a small holding error but it permits effective trigger control. A small holding error and good trigger control promote confidence, which is a necessary element for producing high scores in competition.

The error of the rifle and ammunition can be estimated by firing from a prone-rest position using a sling and telescope sight under conditions of little or no wind. A sand bag or other support can be placed under the hand supporting the forearm of the rifle. Fire a number of 10-shot groups to arrive at an average dispersion. It is possible for a small-bore rifle to produce an average extreme spread of 1" at 100 yds. with selected ammunition under calm conditions. If the rifle fails to approach minute-of-angle groups with any of several selected lots of ammunition, it is probably deficient in some respect. Inspect the rifle thoroughly to assure that the stock screws are tight, the sights and sight bases are tight, and the bore is not fouled or pitted.

Some brands of match ammunition which have been used extensively during the past 10 years have a tendency to erode the bore ahead of the chamber. A depression can be observed at 6 o'clock in the bore at the bullet seat after firing from 5000 to 10,000 rounds. This depression will develop into a ring around the bore with extended firing. If the barrel has a previous record of good accuracy, it may be possible to obtain this accuracy again by rechambering. In

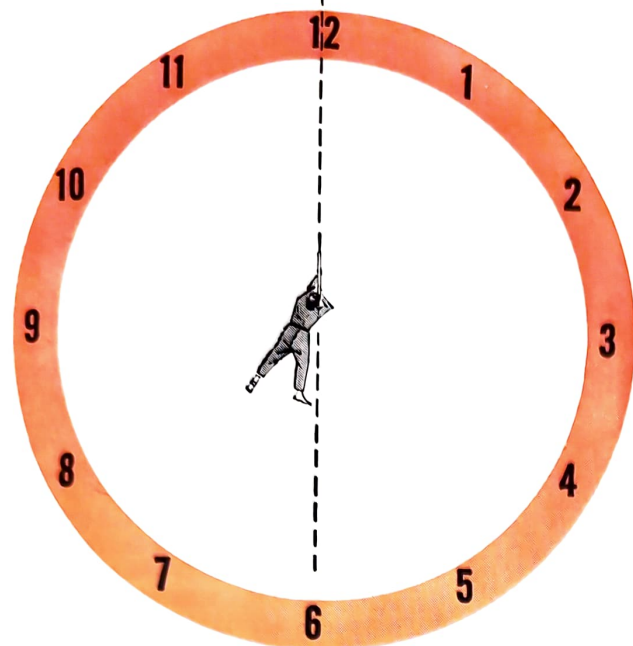
this operation about $\frac{1}{2}$ " is removed from the chamber end of the barrel, and it is then rethreaded and rechambered. If the barrel is of low quality, evidenced by a rough bore finish, by a variation in bore dimensions from the standard, or by a variation in dimensions from point to point in the bore, it may be desirable to have the barrel replaced. There is a large variation in quality among individual barrels. The quality of barrels produced by a custom barrelmaker is expected to be somewhat more uniform than that of barrels made by mass-production methods.

Bedding is important

The bedding of the barrel and receiver in the stock is important. Three types of bedding are in general use. The barrel may be completely free of the stock; it may be in contact with the stock or some device such as an adjustable barrel band at one point near the front of the forearm; or it may be in contact with the barrel for a portion or the full length of the forearm. A plastic bedding material is generally used in the latter method.

Accuracy can frequently be improved by selecting ammunition for the particular rifle. In making a comparison of performance of ammunition lots it is important to have as nearly uniform conditions as possible. Shoot a sufficient number of 10-shot groups to assure that any conclusion reached is sound statistically. In selecting an ammunition lot it is desirable to test a sample of several lots which are available in a large quantity (5000 rounds or more) under conditions of no wind using a prone-rest position. When a suitable lot is found, a sufficient quantity should be purchased to last through the season because impact point as well as dispersion varies from lot to lot.

An error results in estimating correc-



The smallbore rifle outdoor competitor must train himself to 'read' the wind—to correctly estimate wind direction and velocity. An easy method of describing wind direction is to consider the shooter at the center of a clock and the target at 12 o'clock. If the wind is directly in the shooter's face, it is termed a 12 o'clock wind; if it is a right-to-left wind, it is termed a 3 o'clock wind, and so forth

tions for wind. A clock dial wind deflection table shows the horizontal effect of the wind on the bullet at ranges of 50 and 100 yds.

Table of Wind Deflection				
Calculated for a muzzle velocity of 1086 f.p.s.				
Range (yds.)	Wind Velocity (m.p.h.)	Deflection (inches)		
		Wind at 1,5,7,11	Wind at 2,4,8,10	Wind at 3,9
50	5	0.3	0.4	0.5
	10	0.5	0.9	1.0
	15	0.8	1.3	1.5
	20	1.0	1.7	2.0
100	5	1.0	1.7	1.9
	10	1.9	3.3	3.8
	15	2.9	5.0	5.8
	20	3.8	6.7	7.7

Wind with a vertical component causes a vertical movement of the bullet. A cross wind which does not have a vertical component will also cause a vertical movement because the wind imposes a continuous pressure on the bullet, which, for a left wind and a right twist of rifling, tends to depress the nose of the bullet and, for a right wind, tends to elevate the nose. This requires that an adjustment be made for elevation as well as windage when there is an appreciable change in either velocity or direction of wind.

Correcting for wind, or wind doping, is important for obtaining high scores under difficult wind conditions. Wind doping is not in general an exact science because wind is constantly changing in velocity and direction. Furthermore, it may vary from point to point along the trajectory of the bullet at a particular time. Since it is difficult to establish the wind's velocity and direction with precision, it is necessary to use some judgment in estimating corrections. It can be observed by inspecting the windage table that for a particular wind velocity the greatest deflection occurs when the wind is at 3 or 9 o'clock and that the

deflection decreases as the direction moves toward 12 or 6 o'clock. At 1, 5, 7 and 11 o'clock the deflection is $\frac{1}{2}$ that for a wind at 3 or 9 o'clock.

The wind's velocity and direction can be estimated by several methods. It is desirable to consider all methods available for a particular range condition. We are most concerned with the wind at the firing point since the bullet is deflected at an angle with the line of departure. Wind at the firing point can be estimated by feel on the face and other exposed parts of the body, and by observing the movement of vegetation or a string positioned near the firing point.

Watch mirage

Wind characteristics can be observed on bright days by watching the phenomenon commonly called mirage through the spotting scope. This can best be observed by focusing the scope at some point between the target and firing point. The waves rise and bend with the wind to indicate velocity and direction. Vegetation may indicate wind characteristics at other points on the range. Consideration should be given the relationship between source of wind information and bullet trajectory.

Train under various wind conditions, especially under difficult conditions. Develop position, sighting, and trigger operation sufficiently so that firing is accomplished without effort or concentration. The mind is then free to concentrate on the wind and on centering the group on the target. There should be sufficient training in sight adjustment to permit rapid and accurate corrections. With extensive training, only a few seconds are required to make a sight correction. Learn to make maximum use of the sighting target. Before going for record, be certain that the group is centered on the bull for a particular wind condition. This can best be done by firing a number of shots, such as 5, to determine the group center before making a sight adjustment.

Plan your training carefully. By keeping notes on scores, conditions, and sight readings, it is possible to determine where training will result in the greatest improvement in score. The courses of fire in which the average scores are the lowest are 50 meters and 100 yds. with metallic sights. Therefore, it is desirable to fire these courses more frequently than the easier 50-yd. telescopic sight course.

A Master smallbore rifleman must constantly review sighting and holding fundamentals and make a periodic check of the accuracy of weapons and ammunition. A knowledge of wind 'doping' and the ability to use this knowledge correctly divides first-place contenders from other competitors





Wind at the firing line can be estimated by observing movement and direction of a string or strip of light cloth attached to a rod placed in the ground near the shooter

Because of small variations in composition and dimensions of the component parts of rifles, the accuracy characteristics of each rifle differ. Determine the peculiarities of your individual rifle. Not only know the elevation and wind-age zeroes for each range and the group size that the rifle is capable of producing, but be aware of any tendency of the rifle to change its point of impact. The first shot fired from most rifles strikes out of the normal group and, for this reason, some shooters take one or more fouling shots before firing on the sighting bull. Some rifles also have a tendency to change their impact point when they become heated from firing, and others are sensitive to changes in the shooter's firing position.

Preparation for a tournament

Success in a tournament is the result of months or even years of planning and training. Plan a schedule of competitions well in advance to permit adequate training, selection of ammunition, and equipment checking. After some experience determine the routine which is most suitable. For example, some shooters find that driving a long distance before a match without an opportunity to rest affects their holding adversely. Some find that by eating lightly before firing they can maintain a smaller holding error.

It is definitely desirable to arrive at the range in adequate time to prepare and check equipment, and to relax before going onto the firing line. Familiarization with the courses of fire and the conditions of the match is also an important must.

Wear similar clothing from tournament to tournament because clothing affects the fit of the shooting coat and the tightness of the sling. A sweatshirt

worn under the shooting coat and next to the skin will protect the skin from bruises. Be prepared for adverse weather. Some tournaments are fired on ranges which do not have covered firing points and therefore protection for the shooter and equipment should be available in the event of rain.

Individuals are affected in different ways by competition. Some produce better scores in highly-contested matches than in practice and these shooters should try to maintain an atmosphere of keen competition in all matches. Individuals who are inclined to do poorer in competition than in practice should give some thought to their activities between as well as during matches. It may be well to spend a minimum of time at the score board and to occupy the time between matches with some activity which will take the mind off the competition. It may be helpful to travel to the tournament with club members or with individuals with whom you are accustomed to shoot. If there is an individual who produces the same level of score as yourself, you can use his performance as a control and in this manner take your mind off the other competitors.

Match plan

When arriving at a range for the first time, study it carefully. Observe the direction of fire, the slope of the firing point, and the terrain around the range. Much can be learned about the wind conditions of a particular range by inspecting the range itself. It is possible to predict the type of wind conditions which are likely to be encountered. If the range is located on flat land and is fairly free of buildings and trees, the wind can be expected to be strong during the normal day but reasonably con-

stant in velocity and direction. If there are buildings and trees around the range, the flow of air will be broken and consequently it will vary in velocity and direction. Wind on ranges which are constructed on hills or with trees on one or more sides is the most difficult to dope. On some ranges the wind is deflected by the terrain and trees in such a manner that it has a different velocity and direction at different points on the range at a particular time. Furthermore, the wind from some directions may have a vertical as well as a horizontal component of velocity.

Estimate the type of wind condition that will be encountered on a particular range and establish a match plan. For example, the first match in the morning is likely to have little wind on a normal day because the velocity of the surface wind generally increases during the morning and decreases during the evening. When there is little or no wind, concentrate on good holding and centering the group on the target. However, be on the alert for changes in direction and velocity of the wind.

During the middle of a normal day, when firing on a range located in the hills, the wind changes frequently in velocity and direction, and on some occasions it is changing constantly. The latter condition is the most challenging as it requires a wind-correction estimate to be made for each shot.

Wait for wind

It may be observed that wind comes from a particular direction more constantly than from any other. Then it may be advantageous to sight-in under this condition and to wait for it for firing each record shot. This requires a careful wind estimate from shot to shot.

Wind characteristics may be such that there is not sufficient time to shoot all record shots under a single condition. There may be 2 or more conditions which are common during this stage. Fire sighting shots under each condition and observe the effect on the bullet. Then fire for record when one of the conditions can be identified and proper correction has been applied. When the condition is changing continually and there seems to be no particular condition which is more common than another, use more ingenuity to establish a workable plan. Considerable judgment is then required from shot to shot. With the knowledge that the wind has its greatest effect when coming from 3 and 9 o'clock and the least when it is coming from 6 and 12 o'clock, one can draw some conclusions as to the most advantageous condition.

One of the most difficult conditions to fire under is when the wind shifts

quickly from 11 to one or from 5 to 7 o'clock, a condition commonly referred to as a 'fishtail wind'. This condition is difficult to handle because it is necessary to apply half the maximum correction for a wind of given velocity when its direction is at 1, 5, 7 or 11 o'clock. Should the shooter have the proper correction applied for a one-o'clock wind and the wind then changes to 11 o'clock with the same velocity, the point of impact will be changed as much as when firing with no windage correction in a wind of equal value at 3 or 9 o'clock. The change in the wind's direction from one to 11 o'clock, a change of 60 degrees, has the same effect on the bullet as a change from 12 to 3, a change of 90 degrees.

The most favorable plan of fire is frequently dependent on the technique and training of the individual, and it will also depend on the information on wind characteristics which the individual can obtain during firing. If the mirage is easily observed through the spotting scope, the wind's direction and velocity can be established at 2 points: the point at which the scope is focused, and the firing point. Vegetation may indicate wind characteristics at other points so that it is possible to make a good estimate throughout the path of the bullet from rifle to target. However, should it be an overcast day, the mirage will probably not be visible. Then rely upon feel and observation of movement of vegetation and dust to determine wind characteristics.

It is desirable to estimate the score which can be fired under a given condition. For example, when shooting under conditions of little wind, the well-trained and well-equipped shooter should attempt to hit the X-ring with each shot but, when there is an appreciable wind, it is well to concentrate on keeping the group centered within the 10 ring. When conditions are difficult, expect to lose some points. When doing good holding and careful doping, it is possible to get a 9 because the wind may change quickly and you cannot always observe the change while sighting. Also, an accumulation of normal errors in a common direction can result in a 9.

When you get a 9 take time to determine the cause before again firing for record. Recheck the windage correction by firing additional sighting shots.

Shooting good scores under difficult wind conditions is the most challenging part of the smallbore game. Each match is a challenge because the weather varies from match to match. Experience under various conditions is required to do effective wind doping, and to develop a suitable match plan. ■



Game Management News

A monthly digest of significant conservation practices and experiments aimed at expanding and improving conditions that contribute to good hunting

RINGNECKS . . .

Flourish in South Dakota

MORE than 60 million ringneck pheasants are said to have been bagged by hunters in South Dakota since the first open season in 1919. All of them came from an initial stocking of 7000 birds, purchased for \$20,000 and released from 1914 to 1918. Supplementary releases from State game bird hatcheries were not needed; ideal habitat helped the birds thrive and spread.

JAVELINA AGE . . .

Determined by teeth wear

SCIENTISTS at the Arizona Cooperative Wildlife Research Unit now are able to determine the age of collared peccaries, also known as javelinas, up to 21½ months. This is possible on the basis of a time schedule for the appearance of the peccaries' 'baby teeth' and their eventual replacement by the permanent adult teeth. The next step is to develop a guide for aging older animals on the basis of progressive wear of the teeth.

In some ways, this technique will parallel that done earlier for such animals as deer and elk. This knowledge is important, because a means of determining the age structure of a population of animals will give wildlife managers a better understanding of forces influencing abundance.

DUCK BANDING . . .

Increases returns

MORE than 3 million ducks and geese have been captured, leg banded, and released by federal and state wildlife agencies in their continuing effort to learn more about the movements and habits of the migratory birds. Bands from nearly 400,000 ducks and geese have been returned by hunters and others to the Banding Laboratory, Bureau of Sport Fisheries and Wildlife. Yearly returns now are averaging about 40,000.

IDAHO ELK . . .

Said to be underhunted

AN Idaho worker says that hunters are not taking enough elk in many parts of the State. More bull

elk than cows or calves are taken in Idaho's any-sex hunts, he notes, which is underhunting the herds.

He told a conference considering the impact of hunting on elk herds that about 16,000 elk calves are produced in the State yearly.

IN-LIEU PAYMENTS . . .

Offered to offset tax loss

MINNESOTA's Land Exchange Commission has approved the purchase of wetlands by the Federal Government for its waterfowl restoration program. North and South Dakota, which had slowed purchasing because of apprehension about the loss of taxes to county governments, may relent in view of a proposal to permit the payment of specified sums to offset tax losses.

North Dakota's Governor Guy testified in Washington last year in favor of the in-lieu payments bill, also favored by the U. S. Fish and Wildlife Service and conservation groups.

N. MEX. PARKS . . .

Cleared for grazing

NEW Mexico's high country meadows, called parks, are key summer grazing places for deer and elk. Surrounding forests encroach on the parks, however, reducing their area.

The U. S. Forest Service and the State Game and Fish Department cooperated in clearing ponderosa pine and spruce in 14 parks in the Gila and Pecos wilderness tracts this summer.

LESPEDEZA . . .

Aid in locating quail

LOCATE a patch of bicolor lespedeza in South Carolina and you are likely to flush bobwhite quail.

In one special test area offering different kinds of plants growing naturally, more than half of all food taken by quail was bicolor seeds. When the bicolor was destroyed purposely, the quail switched to acorns.

The field men reported that bobwhites were located regularly in less time on areas that contained bicolor lespedeza than on those that did not.—DANIEL A. POOLE

DOPE BAG

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Data and Comment

• NEW WINCHESTER .22's

Lightweight rifles made for hunting and plinking

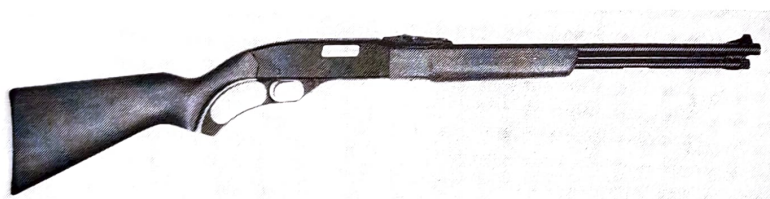
Winchester-Western has announced 3 new cal. .22 rifles for small-game hunting and plinking. Designated Models 250, 270, and 290, they are respectively lever-action, slide-action, and semi-automatic. The steel barrels and aluminum receivers of the 3 rifles are identical. Cross-bolt safeties are located in front portion of guard loops. Buttstocks are attached to the receivers with sturdy through-bolts.

Sighting equipment, tubular magazine assemblies, and buttstock assemblies are also substantially identical although the grip of the Model 250 lever-action rifle is cut away somewhat on the front face to accommodate the finger-lever. All models weigh less than 5 lbs., but their adequate lengths of pull make them suitable for use by adults. These rifles are designed to handle the .22 short, long, and long rifle cartridges interchangeably and without adjustment. The manufacturer recommends use of high-velocity ammunition.

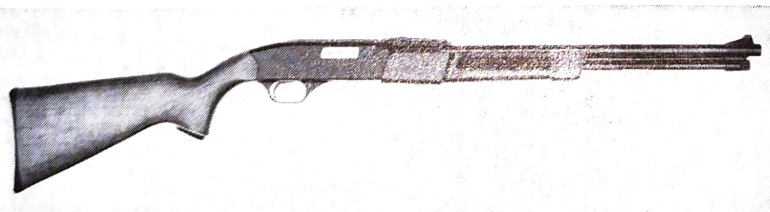
The trigger plates of all models, as well as the lever assembly of the Model 250 rifle, are of aluminum. They are secured in the receivers by positioning studs at front ends and transverse retaining pins at the rear. These pins, of black plastic, are readily drifted out when removal of the



Fully adjustable rear sights on 200-series rifles are made of plastic. Elevation thumb-wheel is shown inset above sight



Winchester Model 250 lever-action rifle



Winchester Model 270 slide-action rifle



Winchester Model 290 semi-automatic rifle

trigger plate assemblies and other action parts is necessary for cleaning or repair.

Disassembly of the relatively complicated trigger plate mechanisms is not recommended during routine cleaning. These assemblies are best cleaned by flushing them with solvent to remove powder fouling and dirt. Lubrication after cleaning is done most easily with a spray can.

The front and rear sights are of black plastic. The post front sight is integral with the band ramp, which is cemented to the barrel. The rear sight assembly is attached to the barrel by a single screw. The sight leaf is attached to the base by a dovetail lock. When rear of the sight leaf is lifted free of the base, it can be swung 90° to right or left, which releases it from the base. This exposes the screw securing the base to the barrel. Click adjustment for elevation is provided by a knurled, stepped thumb-wheel. The wheel is numbered from 1 to 8 with 2 clicks from number to number. Value of each click is approximately 1/4" at 50 ft. A coin-slotted screw is provided for windage adjustments and there are no click detents.

The buttstocks of all models are of walnut-finished hardwood. Buttplate and grip cap are of black plastic with white line spacer in the grip cap. The Model 250 has no grip cap. Fore-ends of the Models 250 and 290 are of contrasting wood, but fore-end of the Model 270 is of

brown plastic with checkered panels on both sides. A wood fore-end is available for this model at extra cost.

Exposed metal parts are blued or black anodized; breechblocks are jeweled.

The 3 sample rifles submitted to NRA were test fired using both high-velocity and match-grade ammunition. There were no significant differences in accuracy of the 3 rifles, which were fired with artificial support. The same Weaver B4 scope in Weaver tip-off mount was used on all rifles. Best results were obtained with Western Mk. III Super-Match .22 long rifle ammunition. Accuracy with Western Super-X .22 long rifle ammunition was not good, and results obtained with Remington Kleanbore .22 short high-velocity ammunition were only fair. Apart from extensive function firing, two 10-shot groups with each type of ammunition were fired at 50 ft. in each rifle and the groups measured between centers of widest shots.

EXTREME SPREAD

Model	West. Mk. III S.M. .22 long rifle	West. Super-X .22 long rifle	Rem. Kleanbore H.V. .22 short
M 250	.23"—.28"	.73"—.68"	.53"—.56"
M 270	.28"—.29"	.70"—.69"	.68"—.60"
M 290	.26"—.27"	.63"—.60"	.53"—.55"

Factory acceptance standard for light-weight cal. .22 plinking rifles demands a grouping capability of not more than 2" extreme spread at 50 yds. for groups of 5 to 10 shots. The 3 rifles performed well within this standard when tested with match-grade .22 long rifle ammunition.

The Model 250 lever-action rifle functioned well with .22 long rifle ammunition as long as the lever was operated positively and smartly. The finger-lever must be operated through its full stroke to

insure transport of the cartridge from the magazine to the breech. Despite care taken to operate the lever properly, several feed failures were experienced with the .22 short cartridge.

Feed failures are not uncommon in tubular magazine rimfire rifles and care must be taken to inspect the magazine and feed mechanism as well as the chamber when clearing such guns. This precaution eliminates possibility of a subsequent accidental discharge from a cartridge unknowingly lodged in the magazine or feed mechanism. In these 3 rifles the end of the steel cartridge follower is visible in the feed slot when the magazine is empty.

Lever operating stroke of the Model 250 rifle is about 70°. The trigger is mounted in the lever assembly so that the trigger finger remains in contact with the trigger as the lever is operated.

The Model 270 slide-action rifle functioned well when the action was operated positively and smartly. Several feed failures occurred with the .22 short cartridge from failure of the cartridge to elevate fully in the feed slot.

Breech of the Model 270 rifle is locked shut when the slide is operated through its full cycle to cock the hammer and feed and chamber a cartridge from the magazine. The breech can be unlocked by pressing upward on a catch button located in rear of the trigger guard on the left side while at the same time retracting the slide handle.

The Model 290 semi-automatic rifle functioned satisfactorily except for occasional feed failures with the .22 short cartridge. The breechblock can be locked to the rear in open position by retracting it as far as possible and then pushing in on the operating handle. The breechblock is released by pulling outward on the op-



Trigger plate assembly of Model 250 lever-action rifle is removed from receiver by drifting out plastic retaining pin at rear end after which assembly can be tipped down and away from receiver. Breechblock and other action parts are readily removed from receiver shell without use of tools. Models 270 and 290 rifles are similarly disassembled

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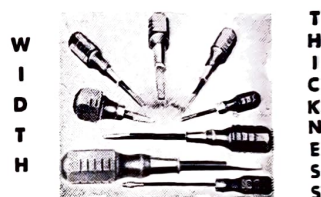
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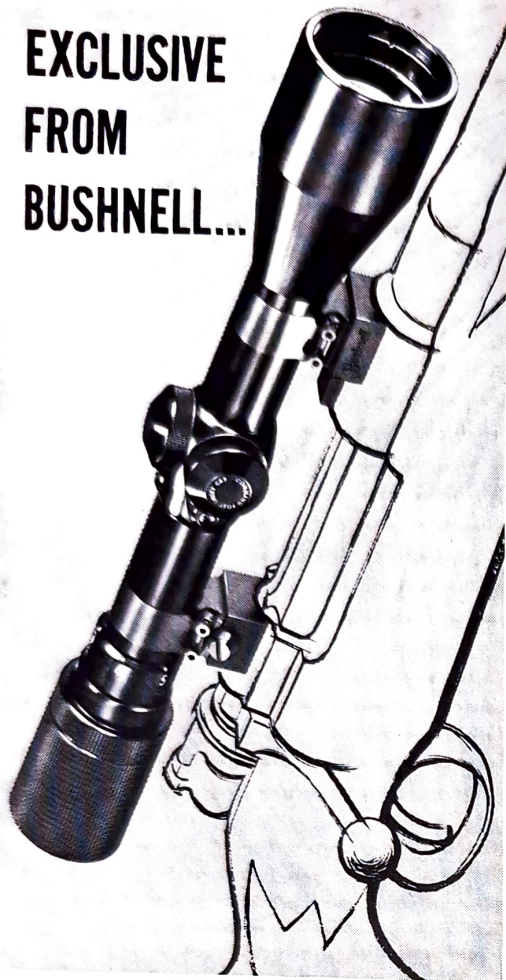
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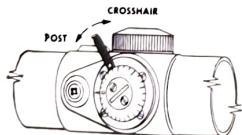
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erating handle with the forefinger and then releasing the knob so that the breechblock can move forward under spring pressure and chamber the cartridge.

There is considerable spitting of hot powder grains from the breech. The Model 290 is not recommended for the individual who fires from the left shoulder as the particles pepper the right side of the shooter's face and are very annoying.

The general finish and handling qualities of all models are good. Trigger pulls of the Models 250 and 290 are relatively light and crisp, but that of the Model 270 is both heavy and creepy.

The magazine tube is capped with a plastic knob which has a locking stud engaging a shallow detent in the lug on the base of the front sight band. Engagement of this detent is very slight, and care must be taken in replacing the tube to assure that it is fully locked in place. Otherwise it may be ejected from the gun with some

force and become lost, or cause a feed failure from loss of follower spring pressure on the column of cartridges. The above remarks apply to all 3 rifles as they have identical magazine systems.

Cartridges can be single-loaded into the chambers of these rifles if the muzzles are pointed downward and care is taken to drop cartridges directly into the chambers.

These rifles are suitable for small game hunting and plinking by both adult and junior shooters.—NRA TECH. STAFF

• WARNING ON .303

Tracer cartridges being sold are a fire hazard

Cal. .303 British Service ammunition with tracer bullet is being widely distributed through dealers in military surplus ammunition. In some instances this ammunition has been purchased by individuals under the assumption that it is of inert ball-type as the bullet bears no tip or annulus marking to readily distinguish it from military ball ammunition of this caliber. This British government-loaded tracer ammunition is identified by a thin coating of red lacquer around the primer annulus. The firing of this ammunition anywhere except on a controlled military range constitutes a serious fire hazard as the burning tracer element generates sufficient heat to ignite even damp substances.

Unless positively identified, all military small arms ammunition should be considered suspect as markings for identifying special-purpose ammunition differ from country to country.—NRA TECH. STAFF



Specifications

WINCHESTER MODEL 250 RIFLE

Mechanism Type: Lever-action, hammerless, tubular magazine
Grade: Standard
Caliber: .22 rimfire: short, long, or long rifle
Weight: 4 lbs. 14 ozs.
Barrel Length: 20½"
Over-All Length: 39"
Magazine Capacity: 21 short, 17 long, 15 long rifle
Stock Dimensions: Length of pull 13 11/16", drop at comb 1½", drop at heel 2 5/16"
Sights: Fully adjustable square notch rear, square post front. Receiver grooved for tip-off scope mount
Sight Radius: 17 13/16"
Rifling: 6 grooves, right twist, 1 turn in 16"
Price: \$56.95

Specifications

WINCHESTER MODEL 270 RIFLE

Mechanism Type: Slide-action, hammerless, tubular magazine
Grade: Standard (optionally available with wood fore-end)
Caliber: .22 rimfire: short, long, or long rifle
Weight: 4 lbs. 10½ ozs.
Barrel Length: 20½"
Over-All Length: 39"
Magazine Capacity: 21 short, 17 long, 15 long rifle
Stock Dimensions: Length of pull 13¾", drop at comb 1¾", drop at heel 2 5/16"
Sights: Fully adjustable square notch rear, square post front. Receiver grooved for tip-off scope mount
Sight Radius: 17 13/16"
Rifling: 6 grooves, right twist, 1 turn in 16"
Price: \$52.95 (\$55.95 with walnut-finished wood fore-end)

Specifications

WINCHESTER MODEL 290 RIFLE

Mechanism Type: Semi-automatic, blowback operated, hammerless, tubular magazine
Grade: Standard
Caliber: .22 rimfire: short, long, or long rifle
Weight: 4 lbs. 11½ ozs.
Barrel Length: 20½"
Over-All Length: 39"
Magazine Capacity: 21 short, 17 long, 15 long rifle
Stock Dimensions: Length of pull 13¾", drop at comb 1 13/16", drop at heel 2¾"
Sights: Fully adjustable square notch rear, square post front. Receiver grooved for tip-off scope mount
Sight Radius: 17 13/16"
Rifling: 6 grooves, right twist, 1 turn in 16"
Price: \$52.95

• NORMA POWDERS

Swedish-made rifle powders now available in U. S.

Several Swedish-made tubular-type nitro-cellulose rifle powders are now being imported for sale in the U. S. by Norma-Precision, South Lansing, N. Y. These powders are used by Norma Projektil-fabrik, Amotfors, Sweden, in loading Norma sporting ammunition and those sold here in canister form will be standardized to assure uniform potential from one lot to another.

The individual canisters are of sheet metal with screw-top lids and are practically identical in size to the 16-oz. canisters used by American firms. However, the net weight of powder in the Norma canisters is 400 grams, which is equivalent to 14.1 ozs., and the suggested retail price per 400 gm. canister is \$3.50.

The 4 Norma powders now offered are numbered 200, 201, 203, and 204. No. 200 powder is the fastest burning and is adapted to small-capacity cartridges such as the .22 Remington, and this powder is also recommended for use with light bullets and/or light loads in larger calibers.

No. 201 powder is slower burning than No. 200 and is for use with lightweight bullets in medium-size cases. No. 203 powder is of medium burning rate for use in

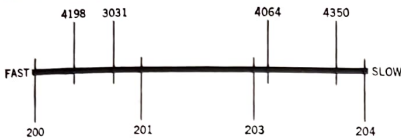
THE AMERICAN RIFLEMAN

medium-size cartridges such as the .30-'06 or 8 mm. Mauser when loaded with all but the lightest bullets.

No. 204 powder is the slowest burning and is made especially for use in large-capacity cases or where the bullet is heavy in relation to the caliber.

According to the Norma firm, the relative burning rates of these 4 powders in comparison with well-known Du Pont canister powders are shown in the graph:

U. S. Powders



Norma Powders

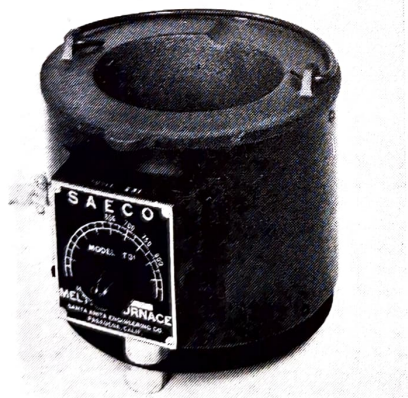
Norma powders are so identified that the lowest number indicates the fastest rate of burning. Loading data for these powders, in many popular American and European calibers, are found in the Norma "Gunbug's Guide". This booklet is available from U. S. distributors of Norma products.—NRA TECH. STAFF

• SAECO MELTING POT

High-quality furnace has thermostatic control

A large electric melting furnace for bullet casting is being manufactured by Santa Anita Engineering Co., 3270-R E. Foothill Blvd., Pasadena, Calif.

Designated Model T31, this is essentially the same as the SAECO Utility Electric Melting Furnace introduced in 1958, with addition of thermostatic control and a heat baffle fastened to the supporting feet to protect the bench top.



The furnace reservoir is a gray iron casting, with pouring lip and handle. Besides being necessary for pouring, the handle is a desirable convenience and safety feature in case the furnace has to be moved during operation. The furnace is insulated with Fiberglas, with a sheathing of blued sheet steel. Top edge of the reservoir is 1 1/4" wide, making a useful lip for laying bullet molds on during preliminary warming.

Weight of the furnace empty is 10 lbs., 7 ozs. Its capacity is 20 lbs. of lead.

The furnace is intended primarily for bullet casting by the dipper method. It is especially suitable for use with large

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7.62 Russian Soft Point (45 rds.)	\$6.65
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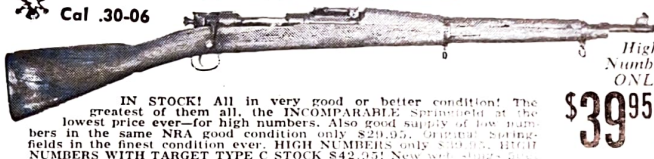
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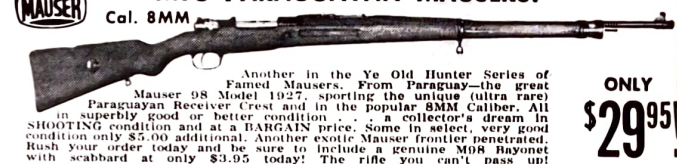


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M98 7MM MAUSERS!



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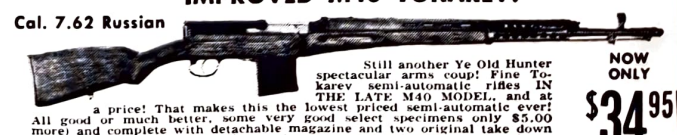
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gang molds which soon exhaust the contents of small furnaces. A furnace of this capacity is also useful in melting down salvaged metal rapidly and casting it into ingots for re-use.

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Price of the SAECO Model T31 furnace is \$36.50 including a 4-cavity ingot mold. —NRA TECH. STAFF

• F. I. RIFLES

Sporting rifles feature FN Mauser actions

Firearms International Corp., Washington 22, D. C., has introduced a line of bolt-action sporting rifles under the brand name 'Musketeer'. Furnished in 2 basic grades, designated Musketeer I and Musketeer II, these are built on Mauser actions made in Belgium by Fabrique Nationale. The barrels and stocks are made in this country. The barrels are rifled by the button process and have 12 lands and 12 grooves. The American walnut stocks are of conventional pattern with Monte Carlo cheekpiece and full pistol grip. The flat-bottomed fore-end is roughly triangular in cross section.

The lower priced Musketeer I grade rifle is built on the FN Deluxe action which has a wing safety on the bolt sleeve and non-adjustable single-stage trigger. Trigger guard assembly is of black-anodized aluminum. The hinged floorplate is released by a thumb catch in the guard bow. The receiver is drilled and tapped for commercial receiver sights and top scope mounts. Standard sighting equipment furnished with these rifles consists of a Williams Guide open rear sight and a bead front sight. The stock of the Musketeer I rifle is uncheckered and does not have sling swivels.

The Musketeer II grade rifle is built on the FN Series 400 action and is fitted with Sako trigger which is adjustable for sear engagement and over-travel. The pivoting side-safety is mounted on the right of the receiver tang. The receiver is drilled and tapped for commercial receiver sights and top scope mounts. The American walnut stock is checkered on pistol grip and fore-end and is fitted with 1" sling swivels. Basic sighting equipment is identical to that of the Musketeer I rifle.

Both grades of rifles are optionally available without sights, or with various combinations of telescopes and mounts. The bolt handles do not require alteration for use with low-mounted scopes.

A Musketeer II grade rifle in cal. .243 Winchester was submitted to NRA for

Specifications

F. I. MUSKETEER II RIFLE

Mechanism Type: Bolt action, integral staggered column box-magazine

Grade: Musketeer II

Caliber: .243 (also .270, .30-'06, .308, 7 mm. Rem. Mag., .264 Win. Mag., .308 Norma Mag.)

Weight: 7 lbs. 6 1/2 ozs.

Barrel Length: 22"

Over-All Length: 43"

Magazine Capacity: 5 rounds

Stock Dimensions: Length of pull, 13 3/4"; drop at comb, 1 1/4"; drop at Monte Carlo, 1 1/8"; drop at heel, 2 1/2"

Sights: Fully adjustable bead front, fully adjustable U-notch rear.

Sight Radius: 16 7/16"

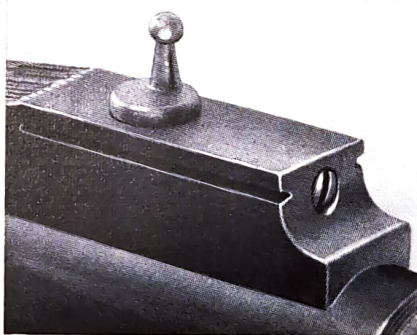
Rifling: 12 grooves

Price: \$128.50 (Musketeer I grade, \$111.66)

evaluation. Quality of over-all finish is very good. The barrel and receiver are blued with high polish finish. The entire bolt assembly is polished bright. The trigger guard assembly is dull matte finished. The stock is gloss finished and quality of checkering is good. Inletting of metal parts in the stock is fair. The stock is full-cut throughout with broad, thick comb tilting down slightly towards the front. Buttplate is of black plastic.

The Williams rear sight is adjustable for both windage and elevation and ruled indexes are provided. A jeweler's screwdriver is needed in making adjustments.

The spherical bead front sight is mounted eccentrically on a round stud which can be moved vertically in the ramp to effect changes in elevation. The stud is secured by a small lock screw in front face of the ramp. Limited windage adjustments can be made in the front sight by



rotating the stud. The adjustment capability of the front sight provides means for initial zeroing of the windage index on the rear sight. Windage adjustments would be applied thereafter to the rear sight only.

Rifling grooves in bore of the sample rifle are smooth, but there are noticeable drill marks on the tops of the lands. Reamer marks are quite noticeable on the shoulder and neck portion of the chamber.

This rifle's action functions stiffly, which is due in part to its newness and to a very



strong mainspring. Cartridges feed from the magazine smoothly and reliably.

Accuracy tests were done at 100 yds. from artificial support using 100-gr. factory ammunition. Two 5-shot groups were fired initially with a time interval of one minute between shots to avoid overheating the barrel. Extreme spreads of the 2 groups were 2.75" and 3.10", measured between centers of the 2 widest shots. The test was then repeated with shots spaced at 10-second intervals. Extreme spreads were 1.40" and 2.95" respectively. An increase in the rate of fire had little apparent effect on grouping capability of this rifle which has a stiff medium-weight barrel.

Precision of the sample rifle with factory ammunition is within the acceptance standard established by Firearms International Corp. for rifles of this caliber. This standard calls for an extreme spread not greater than 1.5" for 4 shots at 50 yds. This is equivalent to 3" extreme spread (3 minutes of angle) at 100 yds.

General handling qualities of this rifle are good, and initial stiffness of the action would no doubt be reduced through use and lubrication.—NRA TECH. STAFF

• SAVAGE PISTOL DATA

Some additional information on pocket pistols

Since publication of my article on Savage pocket pistols in the September 1962 RIFLEMAN, additional information has been obtained. Bulk of this concerns 3 items: (1) 'maverick' pistols with out-of-range or improper serial numbers; (2) sharper definition on the breaking point on changes in early M1907 pistols; (3) more facts on the little-known cal. .25 model.

In the 'maverick' class are 4 cal. .32 M1917 pistols with serial numbers above the range reported by Savage, which listed #256000 as the last cal. .32 pistol made. The out-of-range guns are #256750, #257807, #259087, and #259321.

At least 2 of these have their numbers slightly off-center to the right. This, plus the fact that the first 5 digits of each number are in a serial range reportedly omitted by Savage from its cal. .380 series, (#25243-#26000), may indicate that the company made these guns on special order after regular production ceased, using available cal. .380 frames and numbers and merely adding the final digit and sometimes stamping it too far to the right.

Three freak serials turned up in cal. .380 as well, involving both M1907 and M1917 pistols. I acquired a M1917, #252040, and the last digit is very definitely an "O", not a "B". These serials should have stopped well below #30000B.

A very early M1907, carries #2033 without the "B", while a third cal. .380 pistol was reported as having no serial number at all.

Considering this spread of out-of-range or improper numbers in both calibers, it is quite probable that others exist in this category.

Sharper definition is now possible on the quantity of early cal. .32 M1907's produced. These have the dished-out safety lever and steel grips, and #2114 is the

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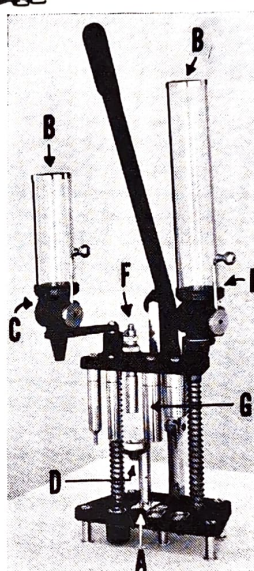
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highest number reported possessing both features. Gun #9616 is the lowest serial seen with conventional knurled safety and steel grips, while #10518 is the highest. Change was apparently made between this last number and gun #19709 which has the conventional knurled safety and rubber grips.

Information has come in on 4 of the scarce cal. .25 pistols, partially substantiating my belief that there are more of these than the 12 or so cited by Savage.

Two of the .25's had serials #1003M and #1013M. The latter bears a shop number "39" as well. The third had shop number "37" while the fourth was said to bear no numbers at all.

Possibly 50 or so of these were assembled in the Savage experimental shops; a few were approved and released for dealer reaction carrying the 1000M series numbers, and the others were rejected or held back, finding their way out of the plant after the company's decision not to produce the cal. .25 pistol commercially.

Conflicting data has been received on both the use of the word "Savage" on the

side of the frame and the practice of numbering breechblocks. No clear-cut pattern has emerged, but it would appear that the practice, in both instances, was much more widespread than previously believed.—DANIEL K. STERN

NRA TESTED LOADS

Supplementary data for the .300 H&H Magnum

This is the third series of NRA tested loads for the .300 H&H Magnum cartridge. The initial loading data were published in the September 1950 issue of THE RIFLEMAN. The second series, representing a complete revision of the original data, appeared in the November 1954 issue and was reprinted subsequently in the NRA Illustrated Reloading Handbook.*

These latest data provide charge recommendations for newly designed bullets which have become available since 1954.

The average pressure level of all loads

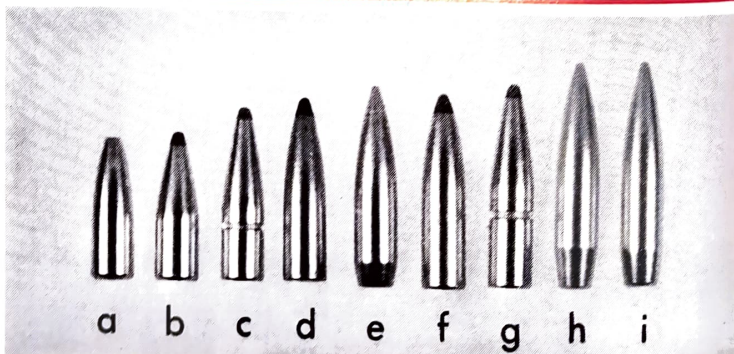
* Price to NRA members postpaid from NRA Headquarters—\$3.50. Price \$4.50 to non-members.

LOADS FOR THE .300 H&H MAGNUM

Ballistic data supplied by H. P. White Laboratory

Load No.	Bullet Weight (grs.)	Bullet Type	Bullet Diameter (ins.)	Over-all Cartridge Length (ins.)	Charge (grs.)	Powder Type	Velocity (f.p.s.) Avg. of 10	Pressure (p.s.i.) Avg. of 10
1	130	(a) Speer hollow-point	.308	3.40	75.0	4350	3449	51,000
2	130	(b) Hornady spire-point	.308	3.40	65.0	4064	3370	50,520
3	150	(c) Hornady spire-point	.308	3.50	71.0	4350	3223	50,920
4	165	(d) Speer soft-point	.3085	3.60	58.0	4064	2911	50,070
5	168	(e) Sierra International	.3085	3.60	69.0	4350	3093	51,750
6	180	(f) Speer soft-point	.3085	3.60	57.0	4320	2746	50,340
7	180	(g) Hornady spire-point	.308	3.60	53.0	Hi-Vel #2	2787	51,400
8	190	(h) Sierra Matchking	.3082	3.60	66.0	4350	2894	51,790
9	200	(i) Sierra Matchking	.3082	3.60	65.0	4350	2804	52,040
10	200	(i) Sierra Matchking	.3082	3.60	52.0	Hi-Vel #2	2664	51,580
180	Factory						2783	45,150

Remarks: Instrumental velocities taken at 20 ft. from the muzzle of the gun. Range temperature varied from 76° to 78° F.; relative humidity from 66% to 67%. All loads were tested in a Johnson pressure barrel, 26" long, .308" groove diameter, .300" land diameter; 4 grooves, right twist, one turn in 12". All loads made up with Winchester cases and Winchester No. 120 primers.



Bullets used in .300 H&H Magnum loads: (a) 130-gr. Speer hollow-point; (b) 130-gr. Hornady spire-point; (c) 150-gr. Hornady spire-point; (d) 165-gr. Speer soft-point; (e) 168-gr. Sierra International; (f) 180-gr. Speer soft-point; (g) 180-gr. Hornady spire-point; (h) 190-gr. Sierra Matchking; (i) 200-gr. Sierra Matchking

THE AMERICAN RIFLEMAN

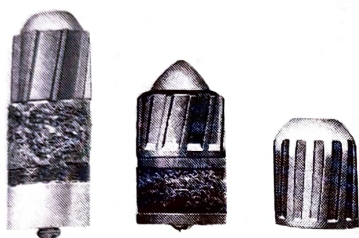
is within the maximum standard chamber pressure of 54,000 pounds per square inch (p.s.i.) established for this cartridge by the manufacturers. Maximum case length is 2.850"; maximum over-all cartridge length is 3.600".—NRA TECH. STAFF

• BENCO SHOTGUN SLUG

Brenneke-style slug has wads permanently attached

A new shotgun slug, the Benco-Vitt, has been introduced by Beaver Engineering Co., Inc., 719-R State St. East, Westport, Conn. It is intended for handloading, and is available in 12-ga. only. Price is \$6.25 per box of 25 slugs.

Shotguns with rifled slugs are more and more used for whitetail deer hunting. This is due in great part to legal restrictions, in some populated areas, which allow shotguns only. Even where shotguns are not



Benco-Vitt shotgun slug (left) shown with Brenneke and usual American factory rifled slug for comparison, all in 12-ga.

required, experience has shown that a pump or self-loading shotgun equipped with good sights, and carefully sighted-in, is highly effective for woods hunting of whitetail deer. Several shotgun manufacturers now supply barrels equipped with rifle sights especially for shooting slugs.

The Benco-Vitt is modeled on the German Brenneke shotgun slug, which for many years has been one of the best available. Before World War II the Brenneke was furnished both in loaded shells and separately for handloading. It is at present sold in imported RWS German-made factory slug shells only.

The essential feature of the Brenneke is its permanently attached wadding, which remains with the slug in flight, keeping it point-forward and also adding effectively to its weight instead of dropping off at the gun muzzle.

The Benco-Vitt slug differs from the Brenneke in using the Alcan Air-Wedge plastic wad in addition to the nitro card under the felt wad, and in much deeper helical grooving in the lead slug. The resulting high ribs are designed to crush down easily in passing through any barrel choke, and still remain in condition to spin the slug slowly about its long axis during flight.

Instructions supplied prescribe loading in 2 3/4" paper shells for use in both 2 3/4" and 3" chambered guns. Charges of Red Dot, Herco, AL-5, and AL-7 powders are recommended, with the suggestion that powder and exact charge weight be selected by trial for shooting accuracy. It is important that no additional wadding be loaded

under the slug-and-wad assembly. The shell is roll-crimped only. The crimp may be omitted in double-barrel guns.

For NRA test, these slugs were loaded in new Federal Monark empty primed shells with 33 grs. Alcan-7 powder, and held in place with a full rolled crimp. This powder charge is one of those recommended by the manufacturer.

Firing for accuracy was done in a J. C. Higgins Model 60 autoloading shotgun with Weaver 6X telescope sight. Setting of the adjustable choke device was at "25-yds." at which setting its inside diameter was .755", therefore materially larger than the barrel bore. Four 5-shot groups fired at 50 yds. measured 3 1/4", 3 1/4", 4 1/4", and 4", in the order fired. Center of impact remained constant. This is excellent slug accuracy. It might be further improved by experimentation with powder charges.

For comparison, four 5-shot groups fired with Remington Express rifled slugs in the same gun and range measured 4 3/4", 4 3/4", 4 3/4", and 3 1/2", and the center of impact of these groups varied by about 2". This is very good factory slug accuracy, and it makes the excellence of the results given by the Benco-Vitt slugs quite evident.

After firing the Benco-Vitt slugs, the shotgun bore showed slight streaks of lead the full length, but not enough to be of importance.

About half the holes made by Benco-Vitt slugs in the 50-yd. target showed large yaw. On the holes without yaw, the imprints of the individual ribs were clearly visible and indicated the ribs were practically undamaged. This of course could not be determined in the case of the yawing impacts. There appeared to be little or no tendency of the yawing slugs to enlarge the group as compared with those which struck point-on.

This slug, with its heavy weight and excellent shooting, evidently would be highly effective to use on whitetail deer.—NRA TECH. STAFF

Being Evaluated

Items of importance received and on which evaluations are being prepared for publication in forthcoming issues include:

- Ruger Hawkeye Cal. .256 Magnum Single-Shot Pistol
- Pacific Case Tumbler

New Products

Metallic Cartridges

The Federal Cartridge Corp., of Minneapolis, Minn., has had long experience in the manufacture of rimfire ammunition, shotshells, and center-fire ammunition under government contract. It has only recently begun production of center-fire sporting ammunition for the civilian market; the first offering being a cal. .38 Spe-

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Stock No. 70-571-HG—5 lb. Magnet—\$12.50 Postpaid
Stock No. 85-152-HG—15 lb. size—\$33.60 FOB

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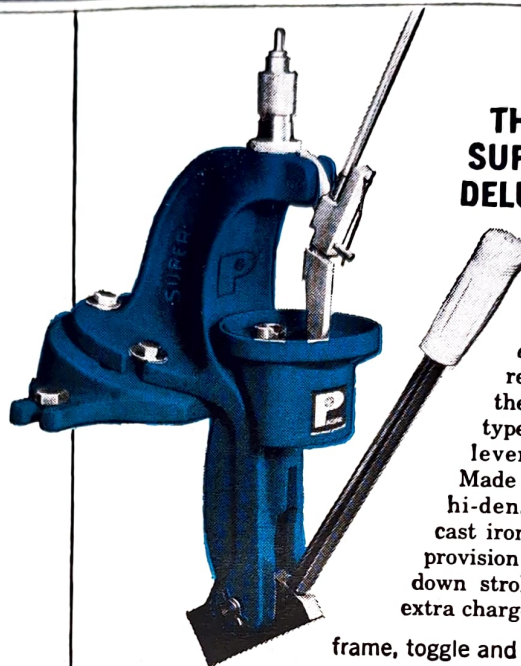
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THE SUPER MAG

The Pacific Super Mag Tool has been chosen by both professional and novice reloaders as the ultimate in quality reloading equipment. This tool is designed to do any reloading job, including swaging, with effortless speed and unmatched precision. Its exclusive three station loading, superior leverage and assured alignment of dies and shell holder are but a few of the advantages that are yours when you purchase your Super Mag. Try one and you'll buy one!!

\$5450 frame, toggle, handle and removable head shell holder rams



THE SUPER DELUXE

Pacific Super Deluxe, the quality "C" Type reloading press is the strongest of its type available, with leverage to match. Made of non-springing hi-density Annealed cast iron, it has built-in provision for both up and down stroke action at no extra charge.

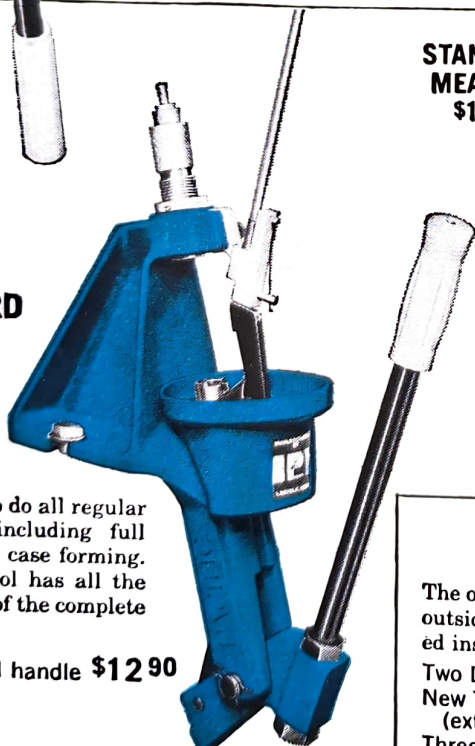
frame, toggle and handle \$1950

Choice of up or down stroke action built into all Pacific Metallic Tools.

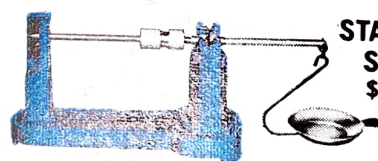
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THE STANDARD TOOL PACKAGE

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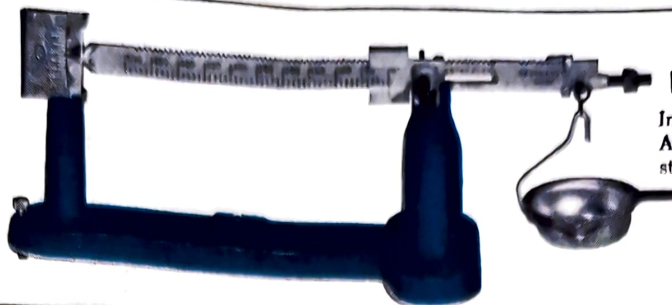
The original 7/8" x 14" dies. Chromed outside, polished and triple inspected inside.

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Three Die Pistol \$13.50



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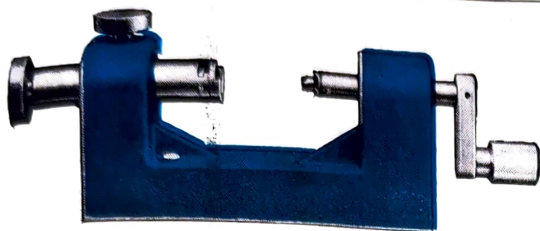
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Universal Powder Funnel	\$ 1.00
"Like-Nu" Case Cleaner	\$ 1.00
Case Size Lubricant	\$.75

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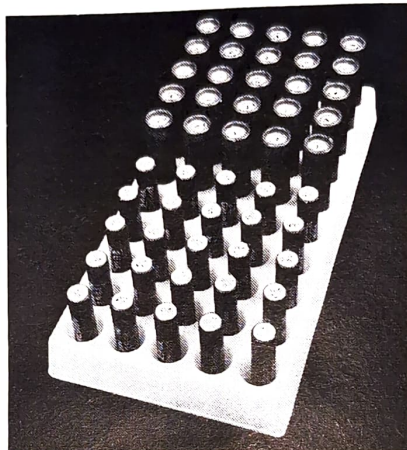
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cial mid-range target cartridge loaded with 148-gr. wadcutter bullet. This was followed by a .45 ACP match cartridge loaded with 230-gr. metal-cased bullet.

Federal is now producing sporting am-
munition in a variety of popular rifle cali-
bers including the .30-30, .30-'06, .300 Sav-
age, and .308. These cartridges are loaded
with newly-designed Federal Hi-Shok soft-
point controlled expansion bullets, and 2
bullet weights are offered in each caliber.
Other center-fire rifle cartridges are sched-
uled for production.

Shotshell Loading Block

A white plastic 50-compartment block
for holding shotshells while reloading is



offered for \$1.98 by J. A. Somers Co.,
1771-R Old Ranch Road, Los Angeles 49,
Calif. The block, shown holding 28-ga.
and 10-ga. magnum loads, is called the
Jasco Shell Caddy and it will accommo-
date shell sizes from 10-ga. through .410.

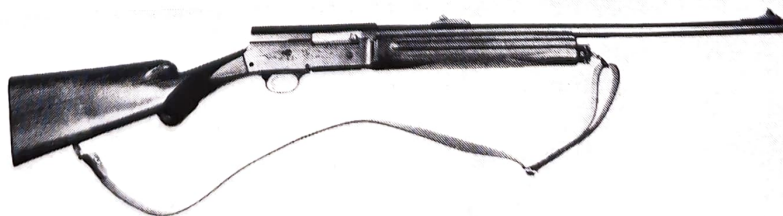
New 6 mm. Bullet

Cal. 6 mm. (.243) hollow-point bullet
weighing 75 grs. and priced at \$4 per
100 is the latest addition to the line of
cal. 6 mm. bullets offered by Hornady
Mfg. Co., P. O. Box 906-R, Grand Island,
Nebr. Designed for varmint hunting, this
new secant ogive bullet replaces the former
cal. 6 mm. 70 gr. spire-point hollow-point.

Slug Shotgun

The Buck Special shotgun, made with
short barrel and rifle sights for deer hunt-
ing with shotgun slugs, is being offered
by Browning Arms Co., St. Louis 3, Mo.
It is available in all gauges of the Brown-
ing Automatic-5 shotgun.

Barrels can also be purchased separately
for existing Automatic-5 guns. Barrels are
interchangeable in a given gauge and type,

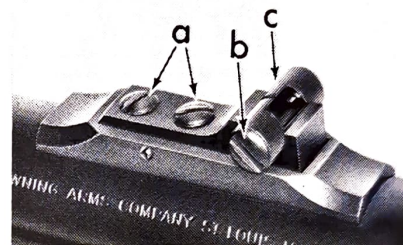


Browning Buck Special shotgun

Specifications

BROWNING BUCK SPECIAL AUTOMATIC SHOTGUN

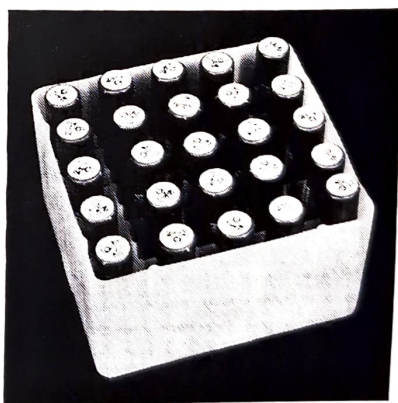
Mechanism Type: Long-recoil selfloading
shotgun
Gauge: 12 and 16 Standard; 12, 16, and 20
Lightweight; 12-3" Magnum
Weight: 7 lbs. 9 ozs. (12-ga. Lightweight)
Barrel Length: 23½"
Over-All Length: 43½"
Magazine Capacity: 4 shells
Stock Dimensions: Length of pull 14½"
drop at comb 1¾", drop at heel 2½"
(both from line of rifle sights), pitch
down 1"
Sights: White metal bead front, open rear
screw-adjustable in elevation and windage
Sight Radius: 18"
Accessories: Detachable sling swivels and
sling at extra cost
Price: Standard 12- and 16-ga. \$150, extra
barrel \$53.50. Lightweight 12, 16, and 20
ga., also 3" Mag., \$162.50, extra barrel
\$59.50. Sling swivels and sling \$6.



but not between standard-length and 3"
Magnum 12-ga. guns. Illustration above
shows rear sight of Browning Buck Special.
(a) elevation screws which rock sight for
elevation adjustment, (b) one of 2 opposed
windage adjustment screws, (c) square sight
notch, in hollow cylinder giving undercut
effect to user.

Plastic Shotshell Box

A recent addition to the line of com-
partmented plastic shell boxes offered by
R. F. Wells, Inc., Howard Lake, Minn.,



is a white, 25-compartment box for shot-
shells. The lid is deep enough to allow the
use of magnum or regular-size cases. The

box, shown without lid and filled with 28-ga. shells, can be used with shells of all gauges smaller than 12, but the shells are not held firmly in the compartments as are the 12- and 16-ga. shells for which it is designed. 16-ga. shells should be inserted head-down. Price is 50¢ each.

Magnum Revolver

The Ruger Blackhawk single-action revolver in cal. .357 S&W magnum is now being furnished with the heavier Super-type cylinder frame at no increase in price. The grip frame has been lengthened approximately $\frac{1}{8}$ " to provide more finger room behind the guard loop. The backstrap has been modified slightly to provide a more convex silhouette in the lower portion.

Specifications

RUGER BLACKHAWK REVOLVER

Mechanism Type: Single-action, solid-frame, rod ejection
Grade: Standard
Caliber: .357 S&W Magnum
Weight: 41 ozs.
Barrel Length: 6 $\frac{1}{2}$ " (also 4 $\frac{1}{2}$ "")
Over-All Length: 12"
Cylinder Capacity: 6 rounds
Sights: Baughman-type quick-draw $\frac{1}{8}$ " square blade front, fully adjustable Micro rear
Sight Radius: 8 7/16"
Rifling: 8 grooves, right twist
Price: \$87.50 (in either barrel length)

The Micro rear sight is protected by side ribs integral with top strap. No other changes have been made in the basic revolver.

Book Reviews

Unless the title of a book is followed by a star (*) the book is available from the NRA Book Service, 1600 Rhode Island Ave., N. W., Washington 6, D. C.

Naval Swords and Firearms*

By Cdr. W. E. May and A. N. Kennard. *British Information Service*, 45 Rockefeller Plaza, New York. 38 pages. 80¢ postpaid.

This small booklet is an excellent brief summary of British naval weapons from the 1700's through the middle years of the last century. Because of a scarcity of specific documentation, information on the earlier weapons is of necessity general. After 1800, however, the data become much more precise for all types of arms. Weapons discussed include swords and cutlasses, dirks, pikes, muskets, rifles, pistols, blunderbusses, and the famed 7-barreled volley gun of the 1780's. Sword knots and belts are also covered. In the division of labor, Cdr. May, of the National Maritime Museum, wrote the section on edged weapons while Mr. Kennard, of the Tower of London, was responsible for the material on firearms. The pictures are very good indeed with 16 pages of photographs plus 8 line drawings. Because of the limitations of space, the discussions of arms is necessarily terse and much has had to be omitted. Nevertheless, students will find the identification of weapons more precise than in Bosanquet's *The Naval Officer's Sword*, and they will welcome this essay as a contribution to a largely ignored subject.—H. L. PETERSON

Reviewed in Brief

*United States War Medals**. By Bauman L. Belden. Reprinted by Norm Flayderman, Greenwich, Conn. 72 pages. \$6.50.

Many collectors of martial arms with a side interest in military medals and decorations will find this book a valuable source of reference. This reprint of the now-scarce 1916 edition is attractively printed on enamel stock and faithfully reproduces the illustrations.

A complete history of the War Medals, and their designers compiled from Congressional records, War Department General Orders, and official Army and Navy records further enhances the book as a reference source. Much of its contents is not to be found in any other current works.

Ten Old Catalogs, 3rd Edition. By L. D. Satterlee. *The Gun Digest Assoc., Inc.*, Chicago, Ill. 404 pages. \$3.95.

This is the 3rd edition of L. D. Satterlee's classic compilation of 10 old gun catalogs that was first published in 1940. The original and the 2nd editions were limited, and are now both rare and costly. This economical 3rd edition is paperbound and thus moderately priced.

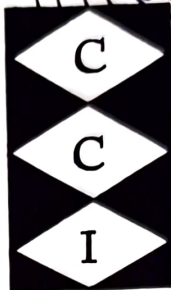
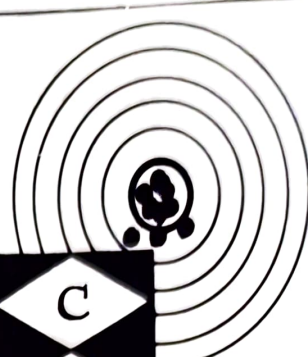
It provides facsimile reproductions of the following catalogs: Merrill, 1864; Peabody, 1865, 1866; Henry, 1865; Spencer, 1866; National, 1865; Folsom, 1869; Great Western, 1871; James Bown, 1876; Homer Fisher, 1880. The publishers of this edition have also included 26 pages from an E. Remington & Sons catalog of 1877.

British Military Firearms, 1650-1850. By Howard L. Blackmore. *Arco Publishing Company, Inc.*, New York. 296 pages. \$8.50.

When the British edition of this volume first appeared early in 1961 it was hailed as a major contribution to the study of firearms and reviewed in *THE AMERICAN RIFLEMAN* for August of that year. The present edition is welcomed as making the volume more readily available to American students and collectors. It is identical with the English edition, printed by the same printer from the same plates. Two years after its initial publication it remains the standard work on its subject, and it will probably continue to be such.

*Military Exercises: 1730**. *Museum Restoration Service*, West Hill, Ontario, Canada. 50 pages. Available from Ray Riling, 6844-R Gorsten St., Philadelphia 19, Pa., \$2.50.

This volume is composed of a short scholarly introduction by S. J. Gooding, and a reprint of a rare early military manual—a German book of military exercises with the flintlock, bayonet, and grenade by Johann Jacob Wolrab. The manual of arms for the flintlock is illustrated, as are the bayonet drill and the manual of the spontoon or halberd for officers. Rarest are the illustrations showing the technique of the grenadier in slinging his musket, preparing, lighting, and



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Straightaway® Ear Protectors cut the Magnum's roar down to a tame whisper, allowing shooters who enjoy this type of competition to score "tight groups" and protect their hearing. Don't let monstrous noise ruin your score. Join the many shooters throughout the world who wear Straightaway® Ear Protectors to keep scoring and keep hearing. Get your Straightaway® Ear Protectors at your leading shooters supply dealer, or by returning this coupon today.

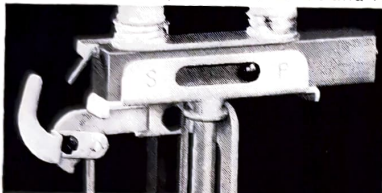
David Clark Co., Inc., 360 Park Ave.,
Worcester 2, Mass.
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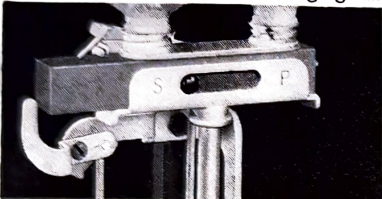
progressive speed

...and this new MEC
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"thinks" for itself

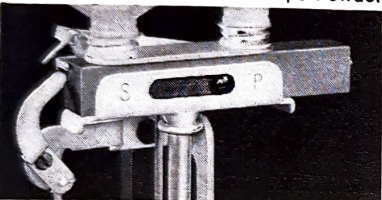
The Programmed Measure:
Depress Handle ... and it



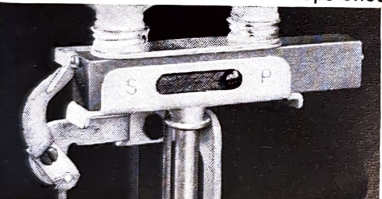
Releases Charging Bar



Drops Powder



Drops Shot



Re-cycles

You are looking at the totally new MEC 310 ... the single stage tool that performs with the speed of a progressive type. It boasts features no other reloader can ... regardless of price. First, there's the new Programmed Charging Mechanism that not only meters powder and shot more accurately ... but does it automatically. Its built-in "memory" device causes powder and shot to be dropped *only* at the proper points in the reloading cycle. And because it's mechanical ... this positively eliminates any chance of human error.

Another progressive feature is the new Direct Reading Pressure Gauge with graduated face and pointer which always indicates exactly the wad pressure being applied. The new wad height indicator assures improved crimping by disclosing improper wadding or other evidence of a defective reload. Then there's the new Reconditioning Station which, with one stroke of the handle, deprimers, completely resizes case head, restores head space and irons out the case mouth. Add to this the fact that the entire shell is reloaded, from deprime to final crimp, in only *four* strokes of the handle, all ending on positive stop, and you have the most efficient, accurate, mistake-proof shotshell reloader in the industry ... bar none! And it's completely safe. Oh yes! It'll process up to 310 hulls per hour.

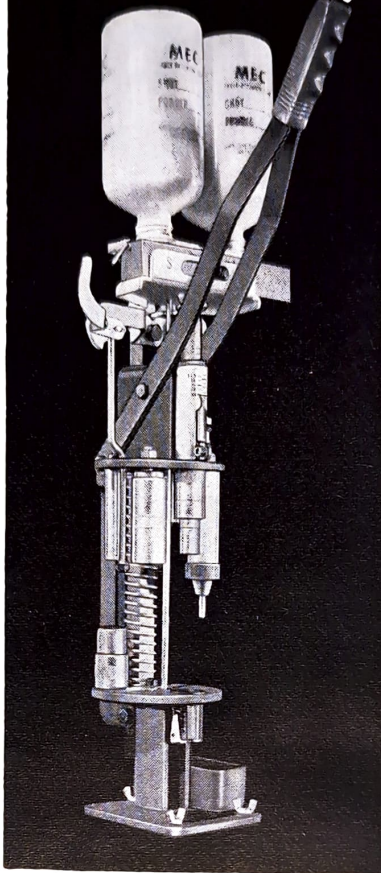
Price? \$69.95 complete. All assembled, tested and ready to go.

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Mayville, Wisconsin for MEC's complete catalog.

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DOPE BAG

throwing his grenade. Finally there is one large drill scene inside a fortification. The text appears both in German and English.

The introductory essay on early illustrated drill manuals gives a bibliography of such manuals published between 1600 and 1830 and a short listing of modern books in which pictures from these manuals have been reproduced. It also includes a commentary upon the Wolrab manual and the reasons for assigning it the date of 1730.

Catalogs

98k Carbine Manual

A 24-page illustrated manual covering construction, handling, disassembly, and maintenance of the German Model 98k Mauser bolt-action carbine is sold for \$2 by Normount Armament Co., Forest Grove, Oreg. The manual is in English, and is a translation of a German Border Police manual.

Antique Gun Parts

A well illustrated 71-page catalog featuring a large selection of parts for antique firearms is sold by Dixie Gun Works, Inc., Union City, Tenn., for 50¢. It includes components for making flintlock and percussion arms, ammunition components, instructions for shooting muzzle-loading arms, miniature and full-size cannons and a variety of miscellaneous items of interest to the collector and shooter of early firearms.

Patents

A list of patents issued recently dealing with arms, ammunition, and accessories.

To get a copy of a patent, send the number and 25¢ to the Commissioner of Patents, Washington 25, D. C. To communicate with an inventor or assignee, if the address given is not sufficient, send a letter addressed to him in care of the Commissioner mentioning the patent number.

Receiver with T-slot opening for a slide block. Harold D. Allyn, Springfield, Mass. 3,058,399.

Compensating device for gas operated firearms. Ellis W. Hailston and Robert L. Kelly, assignors to Remington Arms Co., Inc., Bridgeport, Conn. 3,058,400.

Slug-loaded shotgun cartridge. Walter Tanner and William C. White, assignors to Canadian Industries, Ltd., Montreal, Que. 3,058,420.

Compensating means in a barrel chamber for low and high powered cartridges. Waldo E. Rosebush, Appleton, Wis., by F. Ward Rosebush and Judson G. Rosebush, Jr., executors. 3,059,367.

Projectile for multimissile ammunition. Edward N. Hegge and John P. McDonough, assignors to U. S. Army. 3,059,578.

Shotgun shell reloader. Douglas F. Blesi and William C. Schaeffner, Minneapolis. 3,060,788.

Automatic high-speed firearm. Ernst Tschumi, Schonenberg, Thurgau, Switzerland. 3,060,809.

Sear mechanism disconnected by breech block motion. Robert L. Hillberg, assignor to Charles E. Lowe, Sr., Wethersfield, Conn. 3,060,810.

Cartridges and cartridge firing apparatus. Robert W. Henning, Rock River, and Roger Marsh, Hudson, Ohio, assignors to Olin Mathieson Chemical Corp. 3,060,855.

Practice round of ammunition. Joseph S. Dunn, assignor to Plastic Training Products Co., Bloomfield, N.J. 3,060,856.

Sling swivel for guns. Karl R. Lewis, assignor to Browning Industries, Inc., Ogden, Utah. 3,061,965.

Apparatus for the determination of interior ballistics. Edgar L. Armi, Santa Monica, Calif., and others, assignors to Navy. 3,062,047.

The following is a selection of pertinent questions about arms, ammunition, and their use, with informative answers by Technical Staffmen and Contributing Editors.

Being able to receive answers to questions of this type is one privilege of NRA membership.

Every Dope Bag question-letter submitted must contain the member's 'code line' from RIFLEMAN mailing label or membership card.

If you are not a member and want an answer, submit your question with your membership application and dues.

(Membership application blank appears on page 77.)

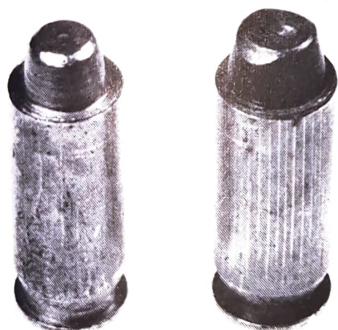
Questions and Answers

Initials carried in "Answers" below indicate handling by: Walter J. Howe, Julian S. Hatcher, E. H. Harrison, E. W. Heter, Jr., Ludwig Olson, Allen F. Ruffin, Jr., M. D. Waite, Frank de Haas, William Dresser, B. R. Lewis, Herschel C. Logan, H. E. MacFarland, Clyde Ormond, Bert Popowski.

.45 JAMS

I have been trying to use swaged wad-cutter bullets in my .45 automatic pistol. However, almost every one of these bullets except the first one in the magazine jams the gun. Can you suggest what the trouble might be?—M.A.P.

Answer: There are 3 probable causes for your jamming. The first is that the bullet is being forced back into the cartridge case in feeding due to an insufficient crimp. Or the jam may be caused by the bullet jamming on the lip or on the slope of the feed ramp of the barrel. This situation can be corrected by grinding the feed ramp to a more gradual slope and matching it to the slope of the magazine well in the pistol grip. This work should be performed by a qualified gunsmith and should have a finely polished appearance when finished.



.45 ACP cartridge loaded with swaged bullet formed from pure lead wire that has been deformed while feeding into pistol chamber (r.) and cartridge with conventional hard alloyed wadcutter that was loaded into chamber many times

The third, and most likely, cause is the deforming of the soft lead used in swaging bullets. As the bullet is forced out of the magazine and into the barrel by the slide going forward, the cartridge tips up and the bullet strikes the top of the barrel in

the chamber area. This deforms the nose of the wadcutter bullet which must then slide along the top of the barrel for the cartridge to fully chamber. Sometimes friction between the soft lead of the bullet nose and the top of the chamber alone is sufficient to cause a jam. At other times the jam is in the barrel at the sharp edge between the origin of the rifling and the end of the chamber.

The practical solution would be the use of a hard-alloyed, lubricated bullet of a design that has proved itself in use to function well in M1911-type pistols. A choice could be made from the following bullets: H&G No. 68, 200-gr.; H&G No. 68 Bevel Base, 197-gr.; H&G No. 78, 215-gr.; H&G No. 130, 185-gr.; Lyman Co. 452389, 185-gr.; Saeco-Cramer No. 5G, 185-gr., which are listed in the article "Pistol Champions' Target Loads" found in the *NRA Reloading Handbook**.—A.F.R.

9 MM. CARTRIDGES

I have some cartridges marked "NWM 58 9 MM". They have a red primer annulus, and they seem to fit properly in my 9 mm. Luger pistol. Are these cartridges safe to fire in my pistol, or are they for submachine gun use only? Can they be reloaded? I pulled the bullet from one, and found that the case has a single central flashhole.—E.D.

Answer: You have described cal. 9 mm. Luger cartridges produced in Holland by the Netherlands Arms and Ammunition Factory. They are safe to fire in pistols and submachine guns adapted to the 9 mm. Luger cartridge, provided that the guns are in good condition.

These cartridges have non-corrosive, non-mercuric, Boxer-type primers, and the fired cases are suitable for reloading. Loading tools and components for this cartridge are available. The proper primer is the .175" diameter small pistol size available from most gun stores.

Loading data for the 9 mm. Luger cartridge is given in the *NRA Reloading Handbook**. A typical load from this source lists the 124-gr. Remington full-metal-jacket round-nose bullet propelled by 4.3 grs. Winchester-Western Ball Powder 230P. The primer is the Remington No. 1½. Over-all cartridge length is 1.15". Instrumental velocity at 20 ft. from the muzzle of a 4" test barrel is 1068 f.p.s. (feet per second). Pressure is 31,610 lbs. p.s.i. (pounds per square inch).—L.O.

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ROTH-STEYR PISTOL

I have a foreign pistol of about cal. .32 and it is marked "Fegyvergyar Budapest". The barrel revolves when the breech is opened. The magazine is in the handle, but it is not detachable, and it is loaded from the top. Is this a Hungarian pistol? Is this pistol adapted to the .32 Automatic cartridge? In what manner is this pistol operated?—A.J.L.

Answer: You have described the 8 mm. Model 1907 Austro-Hungarian Service pistol which was the standard Austro-Hungarian cavalry handgun during World War I. Commonly called the Roth-Steyr pistol, it was produced under G. Roth patents by the Steyr Arms Co. in Austria and by Fegyvergyar (Arms Co.) in Budapest, Hungary. It was developed by Karel Krnka, the Czech arms designer, when he was an employee of the G. Roth Cartridge Factory in Austria.

This pistol is of short-recoil type, and the barrel is rotated for unlocking as the recoiling parts move to the rear. No safety lock is provided, but the firing pin is only partially cocked when the breechbolt closes. The first part of the trigger pull is rather long and heavy, and brings the firing pin to full-cock position. Then there is a distinct pause in the pull, and increasing the pressure on the trigger causes the firing pin to be released.

Loading is by means of a 10-round strip clip of non-reversible type. With the breech open, the clip is placed into the clip slots at the top of the receiver, and the cartridges are forced down into the magazine by thumb pressure against the pusher of the clip. When the empty clip is removed, the breechbolt will spring forward and chamber the top cartridge. The pistol can also be loaded with single cartridges by first holding the breechbolt all the way back, and latching it open by pressing inward the rectangular bolt catch at the upper left of the receiver. The cartridges are then inserted into the magazine one at a time. After loading the magazine in this manner, the breechbolt is pulled

back slightly for unlatching, and it is then released to chamber the top cartridge.

To unload, pull the breechbolt back to remove the cartridge from the chamber, and then latch open the breechbolt as for loading with single cartridges. With the



Loading the Roth-Steyr pistol. The bolt catch is shown by the arrow. The circular catch between the bolt catch and trigger is for unloading the magazine and depressing the follower

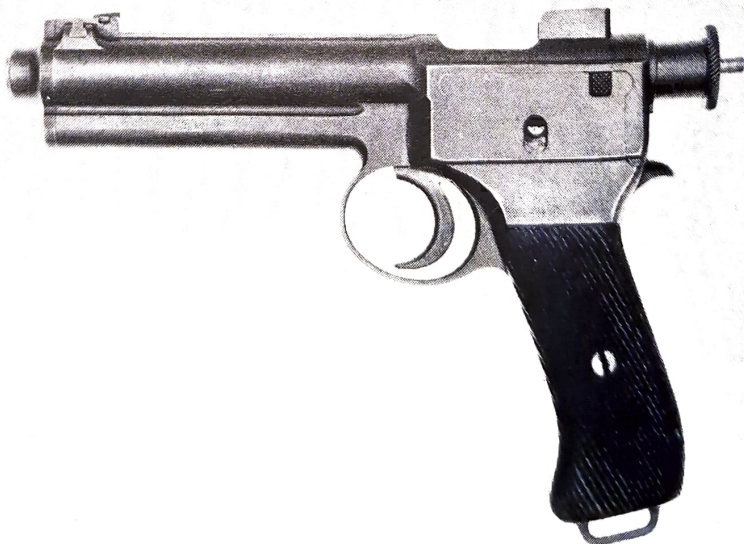
Specifications

ROTH-STEYR MODEL 1907 PISTOL

Mechanism Type: Semi-automatic, short-recoil operated
Caliber: 8 mm. Roth-Steyr
Weight: 35 ozs.
Barrel Length: 5 1/32"
Over-All Length: 9 1/4"
Magazine Capacity: 10 cartridges
Sights: V-notch rear, inverted V front (can be driven laterally for windage)
Sight Radius: 6 3/16"
Rifling: 4 grooves, right twist

left hand over the loading port to catch the cartridges, depress the circular catch above the left grip to release the cartridges from the magazine. Pull back on the breechbolt slightly to unlatch it, and then depress the circular catch to let the breechbolt all the way forward.

The 8 mm. cartridge for this pistol is



Roth-Steyr Model 1907 pistol

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SPECS.
WT. 9 LBS.
BBL Length 23"
Overall 43"
CAL. 30/06

PRICE
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BBL Length 29"
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CAL. 7.65 MAUS

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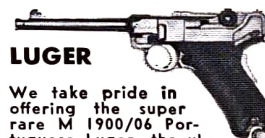
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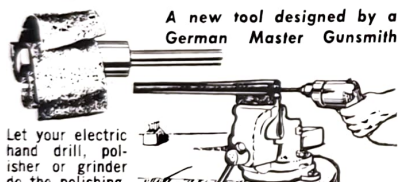
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known as the 8 mm. Roth-Steyr. Larger and somewhat more powerful than the .32 Automatic, this cartridge is difficult to obtain in the U. S. and may be considered a collector's item.



.32 Automatic cartridge (l.) and 8 mm. Roth-Steyr cartridge

Specifications

8 MM. ROTH-STEYR CARTRIDGE

Type: Rimless
Bullet: 111 grs., round-nose, full metal jacket
Velocity At 15 Ft.: 1045 f.p.s.

While the Roth-Steyr pistol is well made and quite reliable, it is rather ungainly, and its heavy trigger pull makes accurate shooting quite difficult. It was expensive to produce, and it has a rather complex mechanism considering the relatively low power of its cartridge. This pistol is quite often encountered in the U. S., and while a collector's item, it is not rare.—L.O.

GARAND STRENGTH

Is it true that the M1 (Garand) rifle was at one time considered to be unsuited for pressures higher than 37,000 p.s.i.? Also, that at some time after the start of World War II it was found the rifle could stand higher pressures than previously thought advisable, and then the loads were changed? I have read statements to that effect in one of the gun magazines and as that is contrary to my previous understanding, I thought I would ask you for confirmation.—G.L.D.

Answer: Both the statements you refer to are in error, though rumors to that effect were circulated at one time. Facts are that the Garand rifle was designed for the cal. .30 M1 ammunition which had a 172-gr. 9° boattail bullet driven at 2647 f.p.s. velocity by a charge that gave an allowed average maximum pressure of 48,000 p.s.i. There has never been any trouble with the Garand rifle from high pressures, and in fact it will stand higher pressures than most military service rifles.

The rumors mentioned above, which originated while a rival rifle was being pushed for adoption, finally reached Congress, which directed the Chief of Staff of the Army to investigate the matter.

It was found that the Garand rifle was designed for the 172-gr. bullet M1 ammunition, but at the time of its adoption there remained stocks of the less powerful cal. .30 M1906 ammunition with 150-gr. bullets which had less maximum range and less recoil than the M1 ammunition. When the M1 ammunition came into use, it was

found that its long-range bullet carried to distances beyond the safe limits of many ranges used by the National Guard, and accordingly the National Guard requested the Chief of Ordnance to make some more of the old shorter range ammunition with 150-gr. bullet for training.

On Apr. 3, 1937, the Adjutant General directed the Chief of Ordnance to manufacture for training purposes 15,000,000 rounds of cal. .30 ball ammunition with the same or a similar bullet to that used in the old M1906 cartridge. Accordingly, 15,000,000 rounds were made up with a bullet similar to the old one but having a gilding-metal jacket instead of cupro-nickel. The bullet was slightly longer than the old M1906 bullet and weighed 152 grs. instead of 150 grs., and was loaded to a pressure of 48,000 p.s.i. to give a muzzle velocity of 2700 f.p.s.

This ammunition was liked so well because of its lessened recoil in the M1903 Springfield rifle, as compared to the 172-gr. bullet cal. .30 M1, that in December 1937 the Chief of Infantry recommended this new ammunition be adopted as standard in place of the .30 M1 cartridge.

In view of this recommendation, the Chief of Staff in March 1938 requested a report from the Chief of Ordnance as to whether the new cal. .30 M2 ammunition would be suitable for use in the newly adopted semi-automatic rifle, and received an affirmative reply, after which the 152-gr. bullet cal. .30 M2 ammunition was adopted as standard. It can be seen that the question of the pressure in the Garand rifle had nothing to do with the change in ammunition.

The design of the Garand bolt and receiver, together with the use of carefully heat-treated high-quality alloy steels, removed the danger present in some other rifles of having the bolt or receiver let go as a result of using the wrong ammunition or of excessive pressure from any cause.

In trying to determine the ultimate strength of the gun, Mr. Garand loaded proof loads of progressively higher pressures in increments of 5000 p.s.i. from the regular proof load, which has 70,000 p.s.i., to the extreme figure of 120,000 p.s.i. At this latter pressure it was found that sometimes the left lug on the bolt would crack, but this seems to affect only the outer hard carburized skin of the bolt and the softer internal parts hold together about as strongly as ever. A gun having the left lug cracked by one of these extreme high pressure loads was fired 5000 rounds of Service ammunition and showed no further deterioration. We have no record of a Garand receiver or bolt being blown up.

While there is no danger of blowing up the receiver, highly excessive pressure coupled with failure of the cartridge head can let gas escape down into the magazine well and splinter the stock and blow the bottom out of the magazine. But even if this should occur, the shooter's eye is so well shielded by the closed rear end of the receiver and the mass of the rear sight housing that there is only a very slight escape of gas toward the shooter's eye. The U. S. Cal. .30 M1 rifle is one of the very safest rifles to shoot.—J.S.H.

THE AMERICAN RIFLEMAN

MUZZLE BRAKES

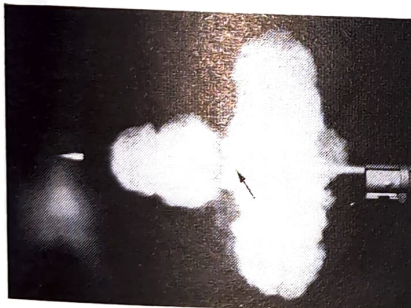
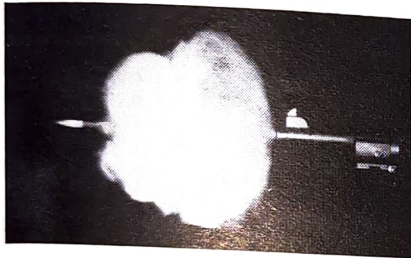
How do muzzle brakes accomplish the recoil reduction claimed?—W.N.O.

Answer: Muzzle brakes function by catching a portion of the powder gas and turning it to the side, sometimes partly to the rear. The force necessary to stop and reverse the gas reacts in a forward direction on the rifle, lessening the recoil.

The amount of reduction depends on how much of the powder gas is caught, whether its forward motion is only stopped or is turned rearward also. With a cartridge the size and power of the .30-'06, if all the emerging powder gas could be caught and turned straight back, the velocity with which the rifle recoils would be decreased by as much as two-thirds.

Even if this could be done, it would not be endurable to the firer. This will be understood by considering the effect of standing just forward and only slightly to one side of a .30-'06 rifle when it is fired.

However, much of the gas follows the bullet straight through the brake without any special blast effect on the firer. Also, for reasons of practicable size and weight, brakes are made to turn the gas they catch to the side, without attempting to turn it back very much. With this lessened action, practicable brakes reduce the recoil velocity by amounts up to 25%.



Muzzle brake functioning, photographed by H. P. White Laboratory, Bel Air, Md. (Top) Muzzle gas from standard .30-'06 rifle. (Bottom) Same, from rifle equipped with muzzle brake. Arrow indicates forward end of brake. Note muzzle gas blown to side and slightly to rear. Rifle that is equipped with brake is aligned exactly below rifle without brake

A part of the confusion which has surrounded this subject is due to the fact that claimants for recoil reduction rarely if ever state clearly what they mean by recoil. In many cases this is because they do not know clearly what they mean.

The important thing to the firer is recoil effect on himself. There can be no single measure of this effect, since it varies from person to person and is partly subjective. However, after long experience it has be-

come generally accepted that the recoil effect is proportional to the kinetic energy of the recoiling rifle. This is favorable to the muzzle brake, since (the kinetic energy varying as the square of the recoil velocity) a given decrease in recoil velocity means a comparatively large decrease in recoil energy. For usual .30-'06 rifle weights and loads, reducing the recoil velocity by 25% results in decreasing the recoil energy by 40% to 45%. This is a highly worthwhile reduction. It is strikingly noticeable in the lighter blow received on the shoulder.

Since this desirable recoil reduction is readily within reach, it is a natural question why muzzle brakes are not in universal use on rifles of heavy recoil. The reason is partly the undesirable lengthening and weighting of the rifle at the muzzle, and partly the effect of the deflected gases on the firer even from the limited brakes which are in use. The blast gives a box on the ear, distinctly more unpleasant to the firer than the report of the unmodified rifle. This effect is much less marked in shotguns, due to the much smaller weight and lower velocity of the powder gases in shotguns, and also it is convenient to combine shotgun muzzle brakes with choke devices. In rifles, however, the blast effect is found important.

One use of muzzle brakes which has been surprisingly little exploited, except on some target pistols, is that of holding the muzzle down. This requires much less force than is needed to reduce recoil materially, and it is easy to arrange simple brakes to deflect the muzzle gas preponderately upward and provide the desired downward reaction.

At any rate, muzzle brakes have been available for decades, and there are no secrets in the brakes themselves. Whether they are liked can be determined only by trial by the individual. In the test of use, muzzle brakes have gained the favor of only a small minority of riflemen.—E.H.H.

SLOW TWIST

In our rifle club there are 3 heavy-barrel .30-'06 target rifles with 14" rifling twist. All 3 require, for best accuracy, much heavier powder charges with cast bullets than those in the table of suggested charges on page 109 of the NRA Illustrated Reloading Handbook. Is this because of the 14" twist?—J.C.M.

Answer: The stability of a bullet fired from 14" twist is only half that of the same bullet fired at the same velocity from 10" twist, since the stability varies as the square of the rotational speed. Consequently the stability of cal. .30 bullets fired from 14" twist barrels is often marginal.

Insufficient gyroscopic stability results in an excessively large first yaw of the bullet after it leaves the rifle muzzle and consequent large dispersion on the target since the direction of this yaw is usually random.

Beginning at about sonic speed, the stability increases slowly as velocity is increased. For this reason, insufficient stability sometimes can be corrected by increasing the velocity. However, most cast bullets are of blunt form, which is more easily stabilized than long-pointed forms. I be-

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lieve that the velocity is one of the less important factors in this application.

More important factors are the origin of rifling and the quality of the bore surface. A short bullet seat, with the rifling lands allowed to come back almost to the forward end of the chamber, allows less gas to escape on firing and requires a slightly lower charge than a long bullet seat. On the other hand, an extremely smooth bore surface (its quality in this respect is not necessarily to be estimated by visual inspection from the ends of the bore) evidently lowers the already low cast bullet friction so much that a considerable charge increase is required for regular results to be achieved. There is a remark to this effect above the table of suggested charges in the *NRA Illustrated Reloading Handbook* to which you refer.

The bullet lubricant has a much greater effect on cast-bullet performance, especially in rifles, than is generally understood. The best easily available lubricant is a soft lithium grease. It is sold in the service stations of some oil companies.

I believe the most suitable bullet is Ideal No. U311291, loaded unsized. Please note the U, indicating an undersized mold. The mold as obtained should cast its bullets not larger than about .309". Also the gas-check shank should be long enough to provide a positive clearance between the lip of the gas check and the rear of the rear band. Some molds have been deficient in this respect.

The above brings out several significant factors involved in your question. With these in mind, and assuming a correct bullet and lubricant, the powder charge can be adjusted in each barrel to give the best grouping.—E.H.H.

BROWNING MAGAZINE

I have a pistol magazine which seems to be a proper fit in an FN-Browning Model 1903 9 mm. military pistol, except that it is too long and projects from the handle. It will accept ten 9 mm. Browning Long cartridges. To what pistol is this magazine adapted?—F.K.

Answer: Many FN-Browning Model 1903 9 mm. pistols have grooves on the lower part of the handle for attachment of a shoulder stock, and the magazine described is a special one for this pistol used only when the stock is attached.

A metal shank on the stock is below the pistol handle when the stock is attached, and this shank is cut out to form part of the magazine well. The catch to retain this long magazine is on the lower part of the stock shank.—L.O.

SAVAGE CARTRIDGES

I have a .303 Savage cartridge with a paper-patched lead bullet. Was this cartridge intended for hunting? Is it of smokeless-powder type?—M.R.

Answer: According to the Savage Arms Co. 1900 catalog, the .303 Savage cartridge with paper-patched bullet was designed for target shooting up to 200 yds., and was called the paper-patched Schuetzen target cartridge. It has a 12-gr. smokeless powder charge. Bullet weighs 185 grs.

This was one of many cartridge types produced by Savage for the .303 Savage Model 99 lever-action rifle. Full-power .303 Savage cartridges listed in the same catalog included one with 22 grs. of smokeless powder and another with 40 grs. blackpowder. Both employed 180-gr. metal-jacketed round-nose bullets.—L.O.

BLACKPOWDER SHELLS

I have an excellent 12-ga. double-barrel shotgun, with Damascus barrels, which I would like to use. Can you please give instructions for loading blackpowder shells that I can use in it?—L.E.K.

Answer: The procedure in loading shotshells with blackpowder is generally the same as in loading with smokeless.

The only serious problem likely to arise is in obtaining shells with sufficiently low inside base to accommodate the bulky blackpowder charge. This problem has become more severe since nearly all current loading tools make only the folded crimp, which takes up more of the shell length than the former rolled crimp. Federal shotshells are especially suitable because they are made with low inside base, and they are of excellent quality for reloading.

Suitable 12-ga. loads are 2¾ to 3 drams of blackpowder and 1 to 1½ oz. of shot. With blackpowder only, a graduated powder and shot measuring cup can be used. On the powder, press down firmly an over-powder card wad .135" thick, then put down lightly a lubricated filler wad of ¾" thickness or as required, depending on the shells available and the load chosen. Load the shot and crimp the shell as in regular shotshell loading.

If desired, the entire loading can be done in a modern shotshell loading tool. In that case the measuring chambers should be adjusted by weighing sample charges. The weight of 3 drams blackpowder is 82 grs. and of 2¾ drams blackpowder is 75 grs. Note that these are charge weights for blackpowder only, not for any smokeless powder.

The above will give the same velocity as the corresponding 'dram equivalent' smokeless loads, and they will also pattern well.

The total recoil impulse of blackpowder loads is slightly greater than that of corresponding smokeless loads, because of greater weight of blackpowder. However, the perceptible recoil of blackpowder loads is usually judged as somewhat less, because of the slower rate at which the impulse is applied. The above blackpowder loads are pleasant to shoot.

The most serious nuisance is the smoke. This is especially annoying on humid days, and nothing can be done about it. Blackpowder also cakes badly in the gun bore. This can be prevented by replacing approximately 10% of the blackpowder charge, by volume, with a corresponding quantity of DuPont Bulk Shotgun smokeless powder. This is most effective when loaded underneath the blackpowder, next to the primer.

When straight blackpowder is loaded, FFFg granulation is correct for the above loads. When bulk shotgun smokeless powder is used to replace part of the blackpowder as just described, either FFg or FFFg may be used.—E.H.H.

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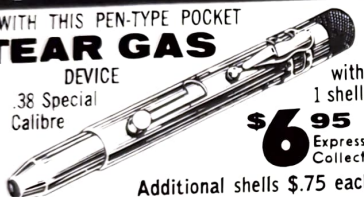
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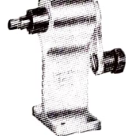


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HANDGUN VELOCITIES

I am a police officer and would like to know what velocity difference there is between long and short barrels in revolver calibers most often used by police?—B.H.

Answer: The results of tests made by Remington Arms Co., Inc., with 3 popular handgun calibers are shown in the table. To avoid the possibility of peculiarities of any one handgun in the test results, Remington tested 3 guns in each caliber. Each figure is the result of 60 rounds fired—20 from each of the 3 guns at each barrel length. The revolvers were selected as representative of average factory production.

.38 SPECIAL

Muzzle Velocity in Feet per Second

Bullet	Barrel Length			
	6"	5"	4"	2"
110 gr. Metal Pen.	1330	1310	1290	1205
Hi-Speed	870	860	845	775
158 gr. Lead	770	760	750	705
148 gr. Wadcutter	745	740	730	695
200 gr. Lead				

.38 S&W

Muzzle Velocity in Feet per Second

Bullet	Barrel Length			
	6"	5"	4"	2"
146 gr. Lead	745	735	715	645

.357 MAGNUM

Muzzle Velocity in Feet per Second

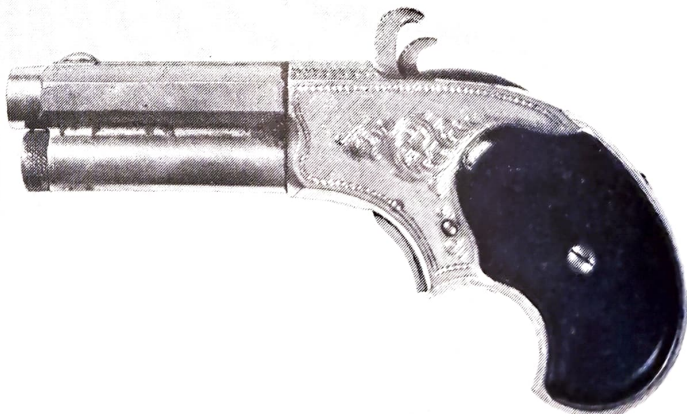
Bullet	Barrel Length							
	8 3/8"	6 1/2"	6"	5"	4"	3 1/2"	3"	2"
158 gr. Lead	1370	1350	1330	1280	1210	1170	1130	1060
158 gr. Metal Point	1430	1390	1360	1300	1240	1200	1160	1070

The figures have been rounded off to the nearest 5 f.p.s.—E.W.H.

RIDER PISTOL

I have a small octagonal barrel pocket-type pistol which appears to have a tubular magazine under the barrel. The top flat of the barrel is stamped "REMINGTON & SONS, ILION, N.Y. RIDER'S PAT. AUG. 15TH, 1871". It appears to have 2 hammers, but the forward hammer is actually the breech thumbpiece. When pulled fully to the rear, it cocks the rear hammer and at the same time extracts the fired case from the chamber and transports a fresh cartridge from the magazine. Closing of the breech then chambers the cartridge.

Front sight of this pistol is a typical



Remington-Rider magazine pistol

rounded blade, but the rear sight is a large aperture that is drilled through the breech thumbpiece.

What is the caliber of this pistol? When was it made? Is it rare?—N.R.

Answer: Your pistol is commonly known as the Remington-Rider Magazine Pistol and it is chambered for the cal. .32 rimfire extra short cartridge. Its design was covered by U. S. Patent #118,152, granted to J. Rider on Aug. 15, 1871. Charles Lee Karr, Jr., in his book *Remington Handguns*, notes that this pistol was manufactured during the period 1871-1888, and estimates that 15,000 of this model were made. From the collector standpoint it is not excessively rare.—M.D.W.

CLOSING SHOTGUN

I have been told that the best way to close a single- or double-barrel shotgun is by holding the lever open with the thumb, swinging the barrels into place, and then easing the lever back so the bolts do not snap into place. Is this true?—B.V.R.

Answer: Yes, but with some qualifications. With any precision-made device, the less force that is exerted on its moving parts, the longer it will last. By first swinging the barrels closed, and then slowly allowing the top-lever to move back into position, the locking lugs or bolts can smoothly enter their slots or holes without jarring and undue friction.

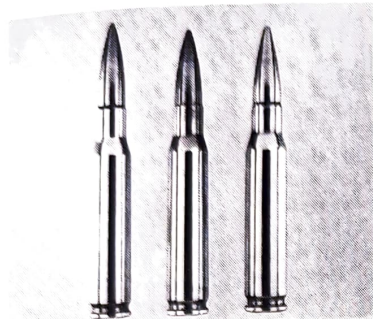
This may be a matter of some importance to the trap or skeet shooter, whose gun must fire hundreds of thousands of rounds. However, to the average shot, this is not likely to be as important inasmuch as he fires far fewer cartridges.

The modern quality shotgun is a strong, well-made weapon. It can withstand 'snapping' closed many, many thousands of times before any appreciable wear is noted. The best modern single- and double-barrel shotguns are designed with this in mind. They have bevels on the locking lugs or bolts, or on their mating surfaces, that accommodate for wear. Some of these bevel surfaces are adjustable.

Even for the most abusive shooter who cracks his gun open hard, and then snaps it shut with force, the first signs of wear are likely to be apparent in other places, such as the trigger mechanisms. You should have no fear about snapping your gun closed for fast reloading.—A.F.R.

M2 IN .308

I recently loaded some .308 Winchester cases with the 150-gr. M2 bullet, seating them to the cannellure as I do when loading .30-06. However, these loads would not feed well through the magazine of my rifle and appear to be a trifle long. Can these bullets safely be seated with case mouth covering the cannellure?—D.S.



(l. to r.) M2 bullet seated to cannellure in .308 case; M2 seated below cannellure; factory-loaded 7.62 mm. NATO round M80 ball

Answer: Seated to the cannellure in .308 cases, the M2 bullet will give an over-all length of approximately 2.885". This is excessive and will likely produce feeding trouble in many rifles. M2 bullets can be seated deeper, to maximum over-all length of 2.800" so that feeding trouble will be avoided.—E.W.H.

150 of the most-often-asked questions on guns and shooting with answers by THE RIFLEMAN arms and shooting specialists are collected in the NRA Illustrated & Indexed Questions & Answers Handbook, available from NRA, 1600 Rhode Island Ave., N.W., Washington, D. C. \$1.50 to NRA members; \$2.50 to non-members.

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• INDOOR LOADS

Wurtsboro, N. Y.

Editor:

Beginning in 1941 the writer was asked to make up large amounts of '06 indoor loads for the 5th Regiment, NYNG. I produced between 40 and 50 thousand which were used for 1000" training, mainly in M1917 Enfields.

The load was 3 grs. Bullseye and a 100-gr. cast bullet, diameter .311". This gave possibles at 1000" on targets designed for that range, and no duds were encountered. No additional stuffing in the '06 case is necessary with Bullseye and large pistol primers.

I had used this load a great deal in off-hand practice at my own range and for rapid-fire training at 50 ft. on the military 50-ft. target. It will make possibles on this small bullseye. Since the war the load has been used to train my son and other Boy Scouts with the '06 but using primers removed from old military ammunition. Not one out of a hundred gives any trouble.

ALBERT J. E. SHAY

• SHOTS WITH A .244

Sharpsville, Pa.

Editor:

With introduction of the .244 cartridge and rifle in 1955, the serious varmint hunter had a nearly perfect outfit available at the local hardware store. The .244 cartridge has a well-designed case capable of holding 52 grs. of powder, a good sharp shoulder, a case neck capable of providing a firm grip on the bullet, and a case head size the same as most popular calibers, thus doing away with the need for a special shell holder. In the .244 rifle, the 26" barrel yielded velocities as advertised, unlike some other makes that lose 200 to 300 feet per second (f.p.s.).

When I received my .244 rifle, a Weaver K6 was mounted with standard Weaver bases and rings. As cases and bullets were not available at that time, the initial firing was done with the 75-gr. factory load sighted to hit 1" high at 200 yds.

The only targets of any abundance were field-perched crows. The first bird hit with this factory load shed feathers like a busted pillow. Subsequent hits were as spectacular, except at extreme ranges. The performance of rifle and ammunition on the crows demonstrated that this outfit would be adequate for varmints even if the shooter were not a reloader.

When custom bullets for the .244 appeared, the rifle was re-sighted to strike 1" high at 200 yds. with a load using the 85-gr. Sierra Spitzer. Groups ran consistently under 1" at 100 yds. A 30" target was put up at 500 yds. and after a few sighting shots, it was no problem hitting it consistently.

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out to 375 yds. on chucks. The explosive effect of the 75 gr. factory load however, was missing. Results were checked with other users of this bullet and their reports were the same. Unless bones were hit, violent expansion did not occur. The rest of these 85-gr. Sierra bullets were labeled "Deer Bullets" and put aside.

Hornady 70-gr. spire points grouped as well, but results on game were very different. The first chuck hit with this load at about 175 yds. was killed instantly. The exit hole could not be found. Blowup at this range was perfect, showing that this was indeed a varmint bullet. Somewhat later, a fox was killed at a distance of 510 steps, the shot and distance being witnessed by 4 other fox hunters. The bullet struck right behind the shoulder and expanded to about cal. .45, killing instantly. Snow on the ground made it possible to recover the bullet.

Another good bullet for varmints is the Sierra 75-gr. hollow point. This delivered much the same results as the Hornady bullet—good velocity, good accuracy, and freedom from ricochets. In shooting young chucks for the table, care had to be taken to hit the head or lung area to prevent undesirable meat destruction by these light, high-velocity bullets.

Two loads necessary

With the approach of duck and small game season, the rifle was retired except for use in developing loads for deer season. Since much of western Pennsylvania permits shots at long ranges, 2 loads were considered necessary. The bullet selected for long-range use was the 90-gr. Speer. It proved to be as accurate as the bullets used previously. The bullet selected for timber shooting was the 100-gr. Sierra semi-pointed. This shot to the same center of impact as the 90-gr. Speer, but enlarged the 100-yd. group to 1½ ins. As an experiment, a group was shot with 2 bullets each of 70, 75, 85, 90, and 100 grs. This composite group opened up to only 2½ ins. at 100 yds. In firing this group, the barrel was allowed to cool at intervals.

A good tracking snow arrived on the opening day of buck season. The first 2 days were spent locating the game. Standers were placed on the third day and trackers attempted to move deer into rifle range. A 9-pointer tried crossing a wheat field overlooked by the rifleman with a .244. The buck was quartering away at about 150 yds., so an angling shot had to be made. The 90-gr. bullet struck the deer in the back of the neck, killing the animal at once. Bullet jacket pieces were found throughout its neck and tongue.

Realizing that a neck shot is not a true test of rifle effectiveness, the owner lent the rifle to another deer hunter. Shortly thereafter, a 90-gr. bullet placed in the chest area of a deer produced an instant kill. Particles of the bullet jacket were found in the lungs. That year the State permitted a 3-day doe season, so the rifle was lent to a doe hunter with the request that the bullet be placed in the chest cavity if possible. The results were the same—instant kill, with only jacket bits recoverable. Queries of .244 and 6 mm. users brought out like results.

Since fox hunting in this region consists of much hunting and little shooting, most fox hunters prefer light, portable arms such as shotguns and .22 rimfire rifles. The .244 rifleman was requested to take a stand as long as dogs and other hunters were moving and hold it until a fox was killed or the hunt ended. It was on one of these hunts that the 510-step shot was made with the 70-gr. Hornady bullet. Another fox was shot with a 75-gr. load at about 150 yds. This time the bullet hit the shoulder bone, doing great damage to the hide on the far side of the animal. Since the hides are worth nothing commercially, this is certainly no drawback to the .244 for this type of hunting.

Obviously, the rifle is not large enough for big, heavy-boned animals such as moose, grizzly, and brown bear. However, in the work for which the rifle was designed, it performs well indeed. The only possible drawback that can be found in the factory .244 is its weight—it is a little heavy when equipped with a scope.

ROGER GWILT

• .22 WMR ON CHUCKS

Union City, Pa.

Editor:

I live in a farming area that tends toward dairying, which means good grass fields and pastures. I've kept track of some results with the .22 Winchester Magnum cartridge in chuck shooting.

The rifle was a Mossberg model 620K, with a K4 Weaver, a 10X Unertl, and a new Lyman 6X All American scopes.

I shot 102 chucks at an average range of 46 yds. Longest range was 95 and shortest 12 yds. I pace nearly all shots and leave any error on the short side. I do all my chuck hunting walking them up, taking advantage of any cover possible, which accounts for some extremely short shots. I usually pass up the longer ones because I feel another trip may place me closer.

Hits were made on chucks in the head 38 times, neck 38, chest 9, shoulder 8, spine 3, and gut 6 times. Shots were taken offhand 74 times, rest 14, sitting 11, kneeling twice, and prone once.

The K4 was the first scope. It was an old model and the crosshairs were off-center high and left. They were also a bit coarse for chucks, I thought. Next was the 10X Unertl 1" scope, but focus seemed a bit critical and mirage bothered me. With the 6X Lyman I obtained more satisfaction and a higher percentage of kills.

Using a full box of ammunition as a basis I got 33 chucks from the first 50 shots, 29 from the second, and 40 from the third. Considering I missed a few chucks, crippled or wounded a very few that made the hole, and fired an occasional shot at a crow or other target, this seems a very good average. The poor showing of the second box I feel was partly because of the 10X scope, but also because the bullet material appeared a bit too hard. I had at least 3 ricochets from the chuck itself and 10 from the ground. I became alarmed about this, but the next box of ammunition did not perform that way. Twice from that last box I had runs of 14 without a miss and once 12, so it seemed consistent.

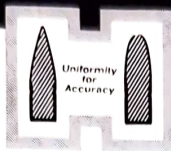
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

Secant Ogive Spire Point Bullets—new more efficient ballistic shape with greater retained velocity for long range shooting. **Round Nose Bullets**—always dependable.

Bullets photographed actual size.





All our game bullets are cannellured (our more explosive varmint bullets are not). Cannellure is applied *before* final bullet swaging; has no effect on finished shape or on accuracy. Retail prices per 100.






22 CALIBER

	(.222)
40 grain Jet.....	\$2.80
	(.223)
45 grain Hornet.....	\$2.80
	(.224)
45 grain Hornet.....	\$2.80
	
50 grain spire point....	3.05
	
55 grain spire point....	3.05
	
60 grain spire point....	3.05




22 CALIBER SX (.224)



Super explosive for the 222.	
	
50 gr. spire point SX ...	\$3.05
	
55 gr. spire point SX ...	3.05

6MM CALIBER (.243)





	
70 grain spire point ...	\$3.95
	
75 gr. spire hollow point	4.00
	
87 grain spire point	4.15
	
100 grain spire point... ..	4.40
	
100 grain round nose ..	4.40


25 CALIBER (.257)

	
60 grain spire point	\$3.85
	
75 gr. spire hollow point	4.00
	
87 grain spire point	4.15





	100 grain spire point... ..	4.40
	117 grain round nose ..	4.65

6.5MM CALIBER (.264)






	
100 grain spire point... ..	\$4.40
	
129 grain round nose ..	4.80
	
140 grain spire point... ..	5.00
	
140 grain round nose ..	5.00

	160 grain round nose ..	5.25
---	-------------------------	------

270 CALIBER (.277)

	
100 grain spire point... ..	\$4.55
	
130 grain spire point... ..	5.00
	
150 grain spire point... ..	5.25
	
150 grain round nose ..	5.25





7 MM CALIBER (.284)

	
120 grain spire point... ..	\$4.65
	
139 grain spire point... ..	5.00
	
154 grain spire point... ..	5.25
	
154 grain round nose ..	5.25
	
175 grain round nose ..	5.75


7.35MM CARCANO (.300)

	
128 grain spire point... ..	\$4.80

30 CALIBER (.308)


	
110 grain spire point... ..	\$4.55
	
110 grain round nose ..	4.55
	
130 grain spire point... ..	4.75
	
150 grain spire point... ..	5.00

	150 grain round nose ..	5.00
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
	170 gr. flat point (30-30)	5.25
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	180 grain spire point... ..	5.25
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	180 grain round nose ..	5.25
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	220 grain round nose ..	5.75
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303 CAL. and 7.7 JAP (.312)

	
150 grain spire point... ..	\$5.00
	
174 grain round nose ..	5.25

32 SPECIAL (.321)

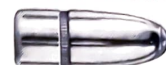
	
170 grain flat point....	\$5.25

8MM CALIBER (.323)

	
150 grain spire point... ..	\$5.00



150 grain round nose .. 5.00



170 grain round nose .. 5.25

338 CALIBER (.338)



200 grain spire point... .. \$5.75



250 grain round nose .. 6.30

348 CALIBER (.348)



200 grain flat point.... \$5.75

35 CALIBER (.358)



200 grain round nose .. \$5.75



250 grain round nose .. 6.30

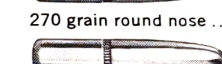


275 grain round nose .. 6.80

375 CALIBER (.375)

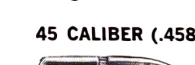


270 grain round nose .. \$7.25



300 grain round nose .. 7.35

45 CALIBER (.458)



350 grain round nose .. \$12.00



500 grain round nose .. 14.00



30 cal. 220 gr. FMJ..... \$8.50



375 cal. 300 gr. FMJ ... 10.00



45 cal. 500 gr. FMJ..... 20.00



30 cal. 220 gr. FMJ..... \$8.50



375 cal. 300 gr. FMJ ... 10.00



45 cal. 500 gr. FMJ..... 20.00

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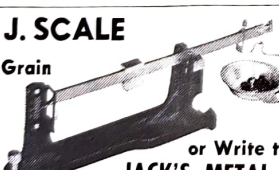
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DOPE BAG

This cartridge performed as well as any of the Hornets I've had (4), or my .22-250 or .222 Rem. It is true I restricted my ranges and also had an excellent opportunity to hunt. Most hunting was done after 4 PM and on sunny days.

I was a gallery target shooter for 18 years, which may have had some bearing on this type of shooting. Also I have killed hundreds of chucks with a .22 long rifle.

I much enjoyed shooting this cartridge, and believe there is a real place for it.

NEIL DWYER

• VARIABLE POWER

Memphis, Tenn.

Editor:

It is in conjunction with the high-velocity, flat-trajectory rifle that the variable scope shows its value. It is particularly useful to the hunter who, for economy or other reasons, owns only a single rifle for both varmint and big-game hunting. A scope of selective power from 2½ to 7 or 10, if properly adapted, can offer the hunter in a particular field situation nearly all the advantages of a scope specifically designed for that purpose.

Note the qualification 'properly adapted'. This refers to the failure of current variable scopes to provide the shooter with a useful and realistic reticle.

One quality variable manufacturer has increased the size of the crosshairs until they cover the greater part of an inch at 100 yds., thus appearing far too large for use on varmint-size game. The lowest power setting reduces their appearance until they are useless for timber hunting, being practically invisible in poor light and against dark backgrounds. Another popular variable has been reduced to external adjustments and a reticle containing 3 pairs of crosshairs. Using low-power settings and sighting on big game, the shooter using this scope is obliged to make a calculated guess at the point of impact, which is supposed to lie in the center of a square formed by 4 of the crosshairs. The crosshair-post(s) combination is available in various degrees of refinement on 2 variable scopes, one having a fine crosshair for the higher powers and a lever-operated vertical post for the lower powers, the other having fine crosshairs superimposed by very thick posts from the sides and bottom.

A crosshair that is conspicuously thick on the outer edges and tapers to a very fine line at the intersection is one of the better designs, but it has 2 disadvantages. The thin hairs in the center are not easily visible in fading light. Also, the crosshairs are photoengraved on glass, a surface that is prone to pick up tiny particles of dust which are magnified and therefore can be disconcerting.

After acquiring a Weatherby .270 Magnum, I chose a Weatherby 2¾X to 10X variable because it was a quality scope giving a wide range of power settings, plus a large light-gathering objective lens. The original reticle was a simple crosshair subtending some ¾ minute of angle (M.O.A.) at 100 yds., much too large for long-range varmint shooting at the high powers and fading into oblivion in dark

woods at the lower powers. I drew up a reticle I thought would serve my needs, and sent the design and the scope to Premier Reticles, Perry, W. Va., for installation. Though the reticle and its functions appear somewhat complicated on first reading, I have found in field situations with almost all conceivable variations of light and range that the reticle performs with remarkable satisfaction.

The reticle consists of a .25-M.O.A. crosshair, with intersection at center of the field of view when the elevation and windage dials are set on zero. A 3-M.O.A. dot is placed 10 M.O.A. above the intersection on the vertical wire. A .5-M.O.A. dot is placed 5 M.O.A. below the intersection on the vertical wire. There is another .5-M.O.A. dot exactly 10 M.O.A. below the intersection and a third .5-M.O.A. dot 15 M.O.A. below.

The scope is mounted on the rifle so that the point of impact for a number of my favorite handloads falls very near the crosshair intersection when the windage and elevation dials are set on their zero markings. It was necessary to slightly shim the rear scope mount to accomplish this. The rear mount has a windage screw, therefore centering the windage adjustment was no problem.

It was, of course, necessary to fire the rifle from bench rest at 100 yds. to ascertain the above facts with precision. However, careful bore-sighting will suffice for an approximation. Again, with a particular load, it is necessary to bench-fire the rifle to determine the exact point of impact at a given range. If the scope is suitably mounted, you will find that the impact point is near the center of the field of view and intersection of the crosshairs.

Shows up distinctly

The elevation dial of the Weatherby variable can move the reticle some 15 M.O.A. either side of the zero. If the shooter is going to use the rifle for timber hunting, the appropriate load is chosen first, then the rifle is sighted in at the desired range using the crosshairs for aiming. Next, the power is turned down to 2¾X and the elevation dial is turned 10 M.O.A. in the direction indicated on the dial as up. This moves the entire reticle down 10", which puts the large 3-M.O.A. dot exactly over the point of impact. At this low-power setting, the dot is about all of the reticle that can be easily seen in the woods and it shows up distinctly against even the darkest background. This size dot may also be used in more open country for shots of 200 yds. or so, and will still not cover the animal to any great extent.

The rest of the reticle is designed for varmint hunting and for long shots at big game in open or mountain country. For this type of shooting, the hunter would be using the 8X-10X settings which cause the crosshair and the 3 smaller dots below to show up well. The crosshair is designed primarily for bench-rest shooting. It is very fine, and is used in conjunction with the highest powers of the scope. I have found that the first .5-M.O.A. dot below the crosshairs constitutes the finest aiming point for varmints that I have ever used.

After choosing a varmint load, and

zeroing with the crosshair at the high powers, one can choose either the cross-wire or the first .5-M.O.A. dot for aiming. To use the first dot, it is necessary to turn the elevation dial 5 M.O.A. in the direction indicated as down. This raises the reticle, placing the dot exactly over the impact point.

Below this first dot are the 2 other .5-M.O.A. dots spaced 5 M.O.A. apart which can be used to serve 2 important functions. The first is as a rangefinder. In fact, any portion of the reticle can be used this way since the shooter knows the distance between any 2 points on it at 100 yds. If he knows the approximate size of the target, the range can be found by simple division. Second, if the rifle is zeroed on the first dot or the crosswire and the trajectory is known, one can determine the amount of hold-over necessary to place the bullet on target at some range beyond the zero point. The aiming point for this hold-over can be the appropriate dot below the zero dot, eliminating guesswork. This latter has made it possible for me to make several very long shots on varmints that I do not think would have been possible otherwise.

During the use of the small dots at high powers for varmint hunting, the large 3-M.O.A. dot is high above the aiming point and is generally unnoticeable, especially at the longer ranges.

I have yet to find a hunting situation in which this reticle does not serve well.

R. ADRON MEDLEY

Try It This Way

A roundup of short 'thought starters' of value to all who are interested in guns and shooting. No payment is made for items used but name credit is given. No photograph or drawing necessary. The brief text must tell the story.

Powder dispenser

The pliable plastic bottles in which detergents, catsup, and glue are sold make handy powder dispensers. Spouts can be cut and enlarged for various granulations. They work well for charging and priming muzzle-loaders and they are useful in other operations where powder must be dispensed in small amounts.—P. A. MACKAY AND S. D. ELLIOTT, JR.

Lead removal

Whenever I notice leading in the barrel throat of my .38 Special revolver from the target load of 2.7 grs. Bullseye and the H&G wadcutter bullet, I fire several gascheck handloads. The gascheck bullet sweeps out the bore. The load used is the Lyman No. 358156 Thompson gascheck bullet and 3.5 grs. Bullseye, although almost any powder charge is sufficient.—Frank D. Shuster

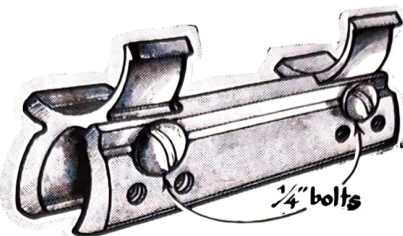
Inletting scrapers

Broken power hacksaw blades make excellent inletting scrapers. Grind the blade to the same size and profile of the part of the gun to be fitted to wood, and sharpen.—BEN W. KELLEY, JR.

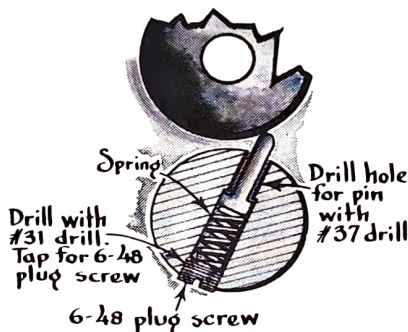
MARCH 1963

"Here's how I did it"

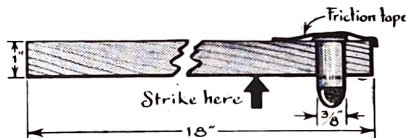
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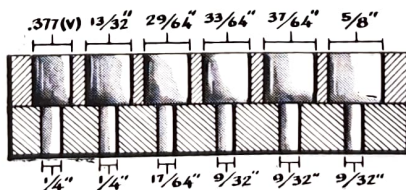
When modified by sawing and filing as shown, Weaver N-2 detachable scope mount can be clamped over top barrel of Savage M24 combination rifle-shotgun. Position two-thirds of mount over .410 chamber.—RICHARD W. KROPP



Loss of inner magazine tubes from cal. .22 rifles is prevented by installing spring-loaded plunger to bear against barrel when tube is in locked position.—RICHARD E. BARD



A simple bullet puller for .38 Spec. can be made from a piece of hardwood 1"x1"x18". Drill a 3/8" hole through one end. Insert cartridge and secure base with friction tape. Strike wood smartly on solid object just short of hole to remove bullet.—DAVID E. FRIERSON



This shell holder for hand decapping will take all metallic cartridges usually reloaded. It can be made of 2 strips of 1/2"x1" stock to ease drilling and to obtain flat-bottomed recesses.—WILLIAM A. SCHLUTH, JR.

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NRA NEWS and EVENTS

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Association Matters

• POLICE CHAMPIONSHIPS

National Championships to be held at Indiana U.

For the second year the NRA National Police Championship Matches will be held at Bloomington, Ind. They are sponsored by the NRA and conducted by the Indiana University Dept. of Police Administration. Dates will be June 1-4 for the Instructor School and June 5-8 for individual and team competition.

The Practical Pistol Course will be fired and the schedule of events will follow closely the pattern used in 1962 when the PPC was divided into stages, with each stage a separate event, and also fired as an entire course. The aggregate of all individual matches determines the National Champion.

There again will be 4 categories with prizes offered to the winner in each category, as well as to the high over-all scorers.

The categories will be Federal Police, State Police, County and Municipal Police, and Industrial Police.

Programs are available from the NRA Program Division.

• RIFLE INSTRUCTORS

Training courses to be held at Scout Camping Schools

Training courses for camp rifle instructors will be conducted this year in Boy Scouts of America National Camping Schools to be held at the following locations: May 26-June 1, Houston, Tex.; June 2-8, Atlanta, Ga.; June 2-8, Omaha, Nebr.; June 8-14, Fresno, Calif.; June 9-15, Springfield, Ohio; June 9-15, South Bend, Ind.; June 9-15, Spokane, Wash.; June 16-22, Mendham, N. J.; June 16-22, Narrowsburg, N. Y.

Each school will include orientation in several sports, and the National Camping Certificate will be awarded to those who successfully complete the school.

The rifle instructor training course, an NRA-BSA cooperative venture, will be held early in the school week, Monday

through Wednesday. Persons interested in obtaining only the NRA Rifle Instructor certificate may leave when this course is completed.

While these schools are primarily for leaders who will serve as Boy Scout Camp Counselors, there will be room for a few additional male instructors who plan to work in other types of camps. These opportunities will be limited to those who will be situated this summer in a place where this type of training will be helpful to them in their work.

Persons attending these schools must be prepared to accept the program and routine of a Boy Scout adult training school, including the standards of conduct expected there. Anyone interested in attending the rifle instructor course should write the NRA Program Division.

Hunter Safety

SASKATCHEWAN

The Game Division, Wildlife Branch, of the Saskatchewan Department of Natural Resources, has signified its desire to enter into the Hunter Safety Program on a cooperative basis with the NRA. A letter from J. C. Shaver, Administrator, says, "We are pleased to enter into your cooperative Hunter Safety Program."

Mr. Shaver is Coordinator for the program.

The Saskatchewan Game Division has been giving Hunter Safety training on a Province-wide basis for approximately 2 years and has trained 3328 students. The instructors number 789. The Province thus joins Ontario and 33 of the United States in Hunter Safety training.

The year 1962 marked the largest "graduating class" yet in Hunter Safety—397,095 students.

The number of students graduated from Hunter Safety Courses throughout the country is given below:

Month of December . . . 33,394
Grand total to date . . . 1,727,982

• INSTRUCTOR RATINGS

All Marksmanship Instructors must renew ratings

All Rifle, Pistol, and Shotgun Marksmanship Instructor ratings and all Police Firearms Instructor ratings expire on Mar. 31. Marksmanship Instructors who have not received a renewal notice by Mar. 10 should send a note to NRA with their expiring card and new credentials will be mailed.

• NRA QUALIFICATION

High power shooters can earn qualification awards

Individual and club members interested in the High Power Rifle Course do not need mid-range or long-range facilities to earn the Marksman, Sharpshooter and Expert awards. These ratings may be earned by shooting required scores at distances of 25 meters and 100 and 200 yds. For those shooters having access to long-range facilities, there are courses at 300 yds., 500 and 600 yds., and 300 meters (International Course).

Shooters who qualify for the Expert rating under any one of the available courses are eligible to shoot for the Distinguished Expert award. This rating requires a score of 238 or better in the National Match Course, to be fired in an NRA Registered or Approved Tournament, or in a National Trophy Match (team or individual).

Qualification awards for this program include certificates, medals, and brassards.

Score requirements, distances, positions, and other pertinent information will be furnished to individuals and clubs on request. Write to NRA Program Division.

• ALL-AMERICAN TEAMS

Nominees for team membership are being sought

Each spring, at the end of the collegiate shooting season, the NRA selects first and second All-American Rifle Teams and first and second All-American Pistol Teams. There are ten members named to each team.

The selection of All-American Teams is made from shooters nominated by team

THE AMERICAN RIFLEMAN

coaches and all officials who have had the opportunity to observe collegiate rifle and pistol matches. Forms for use in making nominations have been mailed to all NRA-affiliated colleges and universities.

A requisite for selection is competition in an Intercollegiate Sectional tournament. In addition, a nominee should have a high scholastic standing and the qualities of sportsmanship and leadership necessary for team competition.

Each collegiate All-American shooter is awarded a Golden Bullet, a team brassard, and a certificate of team membership. Shooters named to second-place teams are awarded certificates of team membership.

The college or university represented by an All-American Team member will receive a special plaque naming the student selected for the honorary team.

• WOMEN'S POSTALS

A variety of matches for both rifle and pistol

The NRA offers a series of rifle and pistol matches open only to women shooters of affiliated clubs. There are individual, doubles, and 4-shooter club team matches for rifle and pistol. All shooting is at 50 ft. Firing may be completed any time prior to May 1. Awards are NRA sterling silver for open competition and special awards for the high scoring girls under 19 years of age.

Programs and entry forms have been mailed to all women members of the NRA and to all affiliated clubs. Additional programs are available from NRA.

• NAT'L GUARD MATCHES

Entries being accepted in smallbore rifle postals

Entry forms for the 1963 National Guard Smallbore Rifle Postal Matches have been supplied by the National Guard Bureau to the Adjutants General of all states who will distribute them to units. Entries are made directly to NRA.

The competition is described in National Guard Regulation No. 44. All firing is at 50 ft. There are matches for individuals, unit teams of 5 shooters, and battalion teams of 10 shooters. The unit team match may be fired any time prior to May 1. The individual and battalion team matches may be fired until June 1.

Additional entry forms are available from the NRA.

• 1962 MAYLEIGH CUP

Int'l postal match won by U. S. Pistol Team

The Mayleigh Cup International Pistol Team Match is sponsored annually by the NRA. Teams are selected by each country's national association and many fire scores at their own national championships. The U. S. Team fires at Camp Perry. Course of fire is 20 shots per team member, slow-fire, at 50 yds. Teams are 10 shooters each. The match was started in 1937.

The U. S. Team has won this match

each year except 3—in 1940 Mexico won, in 1950 Great Britain won, and in 1959 Canada won.

The Mayleigh Cup was donated by G. W. Cafferata, a well-known and popular English handgun competitor, and was presented to the NRA in 1948 by the pistol shooters of Great Britain.

Scores for 1962 were:

1. United States	1884
Harvey E. Aitken, Team Captain	
William W. McMillan, Jr., Team Adjutant	
George R. Collinson, Official Witness	
Franklin C. Green	194
Emil W. Heugatter	193
Larry L. Hausman	190
Thomas D. Smith, III	189
William D. Armstrong	188
Donald L. Hamilton	188
Robert L. Jones	187
Alvin J. Moore	187
Merriweather Jones	186
Samuel W. Hunter	182
William E. Edison, Alternate	
Lafayette Maxwell, Alternate	
2. Great Britain	1838
3. Canada	1808
4. Mexico	1768

• 1962 RANDLE TROPHY

Int'l Women's Team Postal Match taken by U. S.

The NRA-sponsored Randle Trophy International Smallbore Rifle Postal Match is open to teams of 10 women shooters selected by the national shooting association of each country represented. The U. S. Team is selected at the National Matches each year. Each shooter fires the Dewar Course with metallic sights.

The trophy was donated by the late Thurman Randle of Dallas, Tex. The U. S. Team has never been defeated in this match since it was inaugurated in 1952. Listed below are the 1962 scores.

1. United States	3984
Mrs. Bertie Moore, Team Captain	
Miss Winnifred A. Carr, Team Coach	
John A. Buchanan-Wollaston, Official Witness	
Miss Janet S. Friddell	400
Miss Marianne M. Jensen	400
Miss Evelyn Beazley	400
Miss Martha Kelley	399
Miss Kristin Sundstrom	399
Miss Gaby Jane Kuhn	399
Mrs. Lenore M. Lemanski	398
Mrs. Lee Ann Lea	397
Miss Bonnie Smith	397
Miss Linda Pool	395
Miss Janie Svab, Alternate	
Mrs. Irene Fisher, Alternate	
2. Great Britain	3965
3. New Zealand	3938
4. Southern Rhodesia	3870
5. South Africa	3869

• INT'L FREE-PISTOL

Swedish team wins 1962 postal match

The International Free-Pistol Postal Team Match, sponsored by the NRA, was started in 1960. Teams from other countries are invited to participate by the NRA. The U. S. Team score is fired as part of the U. S. International Championship Matches. All teams fire according to ISU rules. Course of fire is 15 sighters and 60 record shots, fired at 50 meters with free-

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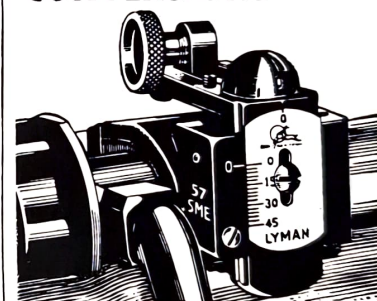
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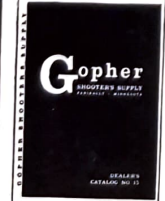
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NRA NEWS & EVENTS

pistol, for each member of the 10-man team. The 1962 scores follow.

1. Sweden	5430
Rune Braden, Team Captain	
Karl Erik Lexne, Team Coach	
Henrick Lonnberg, Official Witness	
Evert Lemrin	556
Leif Larson	554
Gustav Preutz	550
Evert Bramhed	550
Torsten Ullman	541
H. H. G. Hansson	538
Helge Jerrehag	537
Eric Sjoberg	537
Carl-Gustav Rask	535
Bertil Arvedson	532
Ingmar Hedqvist, Alternate	
Folke Ringborg, Alternate	

2. Finland	5378
3. Switzerland	5374
4. United States	5368

Col. Thomas Sharpe, Team Captain	
Fred Burdick, Team Coach	
Lt. Col. Edgar Burroughs, Official Witness	
Fred S. Schaser	551
Bernard A. Stoltman	546
Lloyd Burchett	543
Franklin C. Green	542
Samuel W. Hunter	541
Robert L. Jones	539
William B. Blankenship, Jr.	539
Floyd Thomson	531
Nelson H. Lincoln	520
Arthur J. Purser	516

5. West Germany	5328
6. Italy	5310
7. Norway	5285
8. Great Britain	5264
9. Japan	5245
10. France	5206
11. Canada	5060
12. Denmark	5011
13. Austria	4973

• 3-POSITION POSTAL

Switzerland wins Int'l smallbore position match

An International 3-Position Smallbore Rifle Match is sponsored by the NRA. Course of fire is 40 shots in each position, prone, kneeling, and standing, at 50 meters. Firing is according to ISU rules. The U. S. Team won this match in 1959, 1960, and 1961 but was dropped to second place in 1962 by the fine score fired by Switzerland. The 1962 scores follow.

1. Switzerland				11,363
Otto Horber, Team Captain				
Jacob Bunner, Team Coach				
Hans Helm, Official Witness				
	Pr.	Kn.	St.	
E. Vogt	396	385	371	1152
K. Muller	395	388	369	1152
H. R. Spillman	393	384	372	1149
A. Hollenstein	392	381	364	1137
E. Kohler	389	390	356	1135
K. Long	395	381	354	1130
H. Simonet	395	378	356	1129
E. Schmid	395	383	351	1129
A. Jaquet	389	385	354	1128
H. Schonberger	393	373	356	1122
M. Zumbach, Alternate				
K. Fitzl, Alternate				

2. United States	11,322
Col. Thomas Sharpe, Team Captain	
Robert Long, Team Coach	
Lt. Col. Robert Perkins, Official Witness	
G. L. Anderson	400 387 363 1150
V. F. Wright, Jr.	390 386 371 1147
R. B. Trew	397 377 361 1135
P. W. Kendall	397 386 352 1135

T. G. Pool	391	379	364	1134
J. T. Bertva	389	381	361	1131
J. E. Hill	394	381	352	1127
D. B. Puckel	391	388	345	1124
L. W. Wigger, Jr.	392	372	357	1121
M. Friend	392	376	350	1118

3. West Germany	11,304
4. Sweden	11,184
5. Finland	11,180
6. Austria	11,010
7. Norway	11,002
8. France	10,947
9. Italy	10,940
10. Denmark	10,910
11. Great Britain	10,903
12. Japan	10,708
13. Canada	10,420
14. Netherlands	10,369
15. Luxembourg	9,851

Build NRA

• CLUB FINANCES

Planning for club income and activities

Every member of a shooting club should take an active interest in his club's finances. Upon the budget—a plan for providing income and controlling expenses—depends the programs and facilities that he will enjoy.

Before undertaking to establish a budget, club officers and the planning group should obtain opinions from a cross section of members as to the type of club most of them want. It is from the members that support for fund raising and cooperation in controlling expenses must come. Once a consensus of membership opinion has been obtained, then work on the budget can begin.

From information on hand the budget planning individual or group will have an idea of the club's assets, its obligations, and what will be required to achieve the club objectives. Basic items for which money is required are ranges, club house, equipment, insurance, maintenance, promotion, printing, office supplies, and fees.

Once customary expenses have been estimated, an estimate can be made of how much money will be required to accomplish the most urgent of the long-term projects. It is not necessary, or even desirable, for every club to build its own range. If there are ranges in the community, operated by a public agency or by another club, that can handle all or part of the club's shooting programs, arrangements should be attempted to utilize such facilities. In this way the shooters of a community can enjoy more modern facilities at a lesser cost.

The same yardstick can be applied to a club house and meeting rooms. It is undoubtedly true that ownership of physical property adds strength to a shooting club. But it is not always required that the club own all of the facilities that it uses and the club can choose the building projects that will best serve its own and the community needs.

In addition to establishing or improving ranges and the club house, the club can

consider such projects as covered firing points, landscaping, outdoor range lights for night firing, cooking equipment, running deer equipment, picnic areas, a fishing pond, and a host of other projects to update its facilities so as to favorably compete with other forms of recreation.

Ultimately the planners come to the question of how to raise funds. Usually the primary source of funds are the club dues. It is no favor to members to establish dues that are too low for the kind of club the majority has indicated it wants. Most shooters have invested hundreds of dollars in equipment. This investment is somewhat negated if the club does not make adequate provision for the members' comfort and convenience. Where club officers and committees are making a determined effort to provide the best possible facilities and programs according to the wishes of the members, they will receive the necessary financial support through dues and other fund-raising projects. This has been proven over and over again by more successful shooting clubs, as well as by golf clubs, boating clubs, flying clubs, automobile clubs, and many other participating sport organizations.

Establishing dues

In establishing dues, consideration should be given to the preference of the majority of members for contributing time or money to the success of the club. If the dues are low, it can be anticipated that members will need to spend more of their time on fund-raising projects. The advantage of long-term memberships such as 2, 3, and 5 years, or life memberships, should not be overlooked. In addition to the income from dues, money can be raised by range fees from non-club members, food and beverage concessions, matches, sighting-in days, turkey shoots, raffles, contributions, and the sale of insignia or other fraternal items. It is traditional among shooting clubs for members to contribute their skills and sometimes equipment or material to club projects. The club should recognize that such contributions are worth as much or more than money and devise ways of giving credit and recognition to the donors.

Promotion funds important

Important to club success and growth is the allotment of funds for promotion. Promotion money is needed for the fund-raising job itself. In addition, promotion efforts are required for membership maintenance, meeting attendance, and program participation. In other words, use some of your club funds for newsletters, bulletins, postal cards, and phone calls to keep your members continually up-to-date on your plans, programs, and projects. Let club members know the club is run for their convenience and enjoyment and they will respond with their material, moral, and financial support.

Every club member will benefit from knowing about the club's resources, its plans, and the time and money needed to achieve its objectives. Once he has this knowledge, each member will further benefit by supporting his club officers and committees to the best of his ability in making progress toward club goals.

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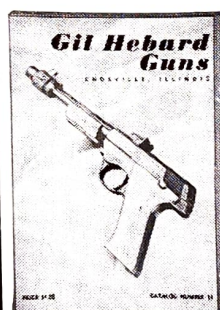
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NRA NEWS & EVENTS

Int'l Shooting Fund

During January the following contributions and
match entry fees were added to the NRA Inter-
national Shooting Fund. The Fund is used to sup-
port U. S. participation in International shooting
events.

S. Grossman,
Los Angeles, Calif. \$ 5.00
Miscellaneous 20.80

ENTRY FEES

A'burg Rifle & Pistol Club,
APO, New York, N. Y. 52.00
Conestoga Rod & Gun Club,
Philadelphia, Pa. 48.00
Manhasset Musketeers Rifle Club,
Bethpage, N. Y. 21.00
Desert Sands Gun Club,
El Paso, Tex. 5.00
Miscellaneous 2.00

TOTAL \$153.80

Deceased Life Members

It is with regret that we learn of the
death of these NRA Life Members.

Ivan W. Baker, Oroville, Calif.
David E. Bennett, Rochester, N. Y.
Edward Bitz, Hardin, Mont.
Harvey H. Bliss, LaHabra, Calif.
Pius J. Boeuf, Ft. Wayne, Ind.
Charles R. Brand, Buffalo, N. Y.
Malvin L. Brewster, El Monte, Calif.
Otto K. Clements, Kellogg, Idaho
Neal F. Cody, Elmwood, Conn.
Fred B. Collins, E. Falmouth, Mass.
Waldo H. Croner, Fairfield, Idaho
Richard H. Davis, Oakdale, Mass.
Frank L. Dowsett, Petaluma, Calif.
Burr A. Evans, Hastings-On-Hudson, N. Y.
Thomas S. Goldsmith, Malvern, Pa.
E. Haley, Buena Vista, Colo.
William F. Heller, Chicago, Ill.
Frank Hogan, Salt Lake City, Utah
Fred W. Hoover, Ormond Beach, Fla.
G. R. Irwin, Ft. Rock, Oreg.
Ernest Johnson, Bettles, Alaska
John W. Knudson, Tok, Alaska
Francis Kotzbier, Sidney, N. Y.
Russell C. Lane, Los Altos, Calif.
Reynold J. Lawe, Schurz, Nev.
Richard A. Lee, Colville, Wash.
Charles B. Minker, Washington, D. C.
Randall D. Morris, Big Bear City, Calif.
Tage C. Olsen, Southfield, Mich.
Al Paradise, San Diego, Calif.
Patrick Ryan, Tuxedo Park, N. Y.
Lewis C. Sanderson, Milford, Mich.
Charles H. Sloan, Weston, Mass.
Wilbur E. Smith, Arcadia, Calif.
John A. Stonich, Lyndhurst, Ohio
Henry E. Suavet, New York, N. Y.
Clifford M. Sudduth, Pasadena, Tex.
DeWitt E. Tallyn, Benson, Ill.
Oscar N. Torgerson, Chippewa Falls, Wis.
Walter Trapp, Rochester, Minn.
A. G. Wendell, Kecoughtan, Va.
Henry J. White, Carmel, Calif.
George Wilbur, Reno, Nev.
Merlyn D. Wilkinson, Muskegon, Mich.

Headquarters Mail

Questions and answers containing information of
general interest to NRA members, digested from
correspondence processed at NRA Headquarters.

DEFINING 'PISTOL'

*From the standpoint of the law and in
connection with permits, how is a 'pistol'
defined? Has any recognized body or
group ever defined the word pistol and
had it officially accepted?—N.N.*

Answer: A little over 30 years ago, the
National Conference of Commissioners on
Uniform State Laws drafted and approved
what was known as the "Uniform Fire-
arms Act". This Act received the approval
of the American Bar Association and was
adopted in almost pure form in the states
of Alabama, Indiana, Pennsylvania, South
Dakota, Washington, and by the Federal
Congress for the District of Columbia. In
this Act a pistol is defined as any firearm
with a barrel less than 12" in length. Per-
haps this may be considered to be a more
or less standard definition. However, the
statutes of many states contain no defini-
tion of the term 'pistol', but consider a
pistol to be any weapon that is capable of
being concealed.

Under the regulations implementing the
National Firearms Act, a pistol is defined
as follows: 'Pistol' shall mean a weapon
originally designed, made, and intended to
fire a small projectile (bullet) from one or
more barrels when held in one hand, and
having [a] a chamber(s) as an integral
part(s) of, or permanently aligned with,
the bore(s); and [b] a short stock de-
signed to be gripped by one hand and at
an angle to and extending below the line
of the bore(s). The term shall not include
any gadget device, any gun altered or con-
verted to resemble a pistol, any gun that
fires more than one shot, without manual
reloading, by a single function of the trig-
ger, or any small portable gun such as:
Nazi belt buckle pistol, glove pistol, or
one-hand stock gun designed to fire fixed
shotgun ammunition.—NRA LEGISLATIVE
SERVICE

OK TO USE MAGAZINE

*Is the use of a magazine authorized
under current NRA smallbore rifle rules?
I note that virtually all shooters are care-
ful to load each round separately rather
than function them through the magazine.
Why is this?—P.B.C.*

Answer: There is no prohibition against
use of the magazine in the current NRA
Smallbore Rifle Rule Book although local
range ground rules may prohibit their use.
Most riflemen prefer to single-load their
rifles from shooting block since this elimi-
nates any possibility of damage to the soft
lead bullet which can easily occur when
the cartridge is fed from the magazine into
the chamber. A scratched or marred bullet
is less likely to fly true than an unmarred
one. Use of the magazine also makes it
difficult to keep track of record shots. This
is no problem when cartridges are single-
loaded from the shooting block.—NRA
PROGRAM DIVISION

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KIND WORDS From the Shooting Press
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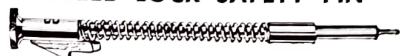
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This conversion barrel is the same match quality as used in our H&A muzzle loaders—laser-turned to fit 45/70 and 50/70 "trap door" Springfield, complete with plug, tang, & nipple. Simply drop out old barrel and receiver—install our new barrel and change hammers—gun is ready to shoot. Original U. S. Springfield percussion hammer included . . . it replaces your cartridge hammer without fitting. Conversion barrel gives you really two guns in one—saves high ammo costs, and brings muzzle loading shooting fun within everyone's reach. Dealers will find it profitable to replace worn out barrels and receivers on Springfields in their inventory. Price complete and ready to use—only \$26.50 plus 85¢ pp. (Bullet mold—.45 cal. for above—only \$2.25).

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You get—Flask, Powder, Caps, Patching, Lead, Bullet Mold, Powder Solvent, Measure, Instruction Book. Saves much time and money since you start with correct bullet mold size, patching material, powder loads.

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- *MOST POPULAR "Offhand" model, full octagon cut rifled barrel. Either .36 or .45 caliber. About 7 1/2 lbs.
- *MODEL .45 TARGET, 32" cut rifled, round barrel, favorite match shooter, 10 lbs., .45 caliber only.
- *12 ga. FOWLER, only 4 1/2 lbs., 30" choked barrel.

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Mauser, 1891 (Argentine)
Mauser, 1909 (Argentine)
Mauser, M93 (Spanish)
Mauser, M94 (Swedish)
Mauser, M95 (Mexican)
Mauser, M96 (Swedish)
Mauser, M98/1g. Receiver Ring
Mauser, FN.
Mauser, FN, Series 400
Remington, 1903
Remington, 1903A3
Remington, 1917
Remington, M721*
Remington, M722*
Remington, M725**
Savage, M110R**
Savage, M110L**
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Springfield, U. S. 1903
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NRA NEWS & EVENTS

CARRYING GUN

Is there a license which will cover the carrying of handguns from one state to another?—R.W.D.

Answer: There is no pistol license that will cover the transporting of a concealed weapon from one jurisdiction to another. Each state has its own laws and other regulations governing firearms; and every person, whether resident or non-resident, entering the boundaries of a particular state must adhere to its legal requirements.

A great majority of the states either do not honor or have no provisions for honoring an out-of-state permit.

The following states require a license for the carrying of a handgun in a motor vehicle: Alabama, California, Connecticut, Hawaii, Indiana, Iowa, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Dakota, Oregon, Pennsylvania, Rhode Island, South Dakota, and Washington. Among the jurisdictions named, the following exempt from the license-to-carry requirement members of clubs going to and returning from target practice, or hunters and fishermen while going to and returning from hunting or fishing, or both target shooters and hunters or fishermen: Alabama, California, Indiana, Michigan, New Hampshire, New Jersey, Oregon, Pennsylvania, Rhode Island, South Dakota, and Washington.

With regard to the obtaining of the necessary licenses, this would depend upon what state you intend to visit as each state has its own procedures for the application for, and the issuance of, a pistol or revolver permit.—NRA LEGISLATIVE SERVICE

SHOULDER STOCKS

May I legally own a shoulder stock for a Luger automatic pistol?—K.B.S.

Answer: Neither a shoulder stock by itself nor a pistol not capable of firing fully automatically is subject to registration or transfer tax under the National Firearms Act. A person who possesses a Luger pistol, with a barrel less than 16" in length and a lug on the grip for the attachment of a shoulder stock, and acquires a shoulder stock for such gun will incur a making tax of \$200 under Section 5821 of the National Firearms Act because he has in his possession a rifle having a barrel less than 16" in length.—NRA LEGISLATIVE SERVICE

H&R HANDY GUN

I have heard that the H&R Handy Gun is subject to taxation and registration. Is this so?—L.G.W.

Answer: The H&R Handy Gun comes under the tax and registration provisions of the National Firearms Act. Registration is made with the Alcohol and Tobacco Tax Division, Internal Revenue Service, U. S. Treasury Dept., the agency charged with the administration of the Act.

This particular firearm is classified as "any other weapon" under Section 5848 (5) of the National Firearms Act. The transfer of such a firearm involves the payment of a \$5 tax, while the making of such a firearm requires the payment of a \$200 tax.—NRA LEGISLATIVE SERVICE

Coming Events

TOURNAMENTS

Listed here are all registered and approved tournaments for the next 3 months. In order to be listed, dates must be authorized by NRA by the twentieth of the second month preceding publication.

● (A)—Designates approved tournaments. All others are registered.

NATIONAL MATCHES

Aug. 2-Sept. 1—OHIO (Camp Perry)
Aug. 2-4—Small Arms Firing School—Pistol
Aug. 5-10—Pistol Matches
Aug. 10-15—Instructor—Junior School
Aug. 11-16—Smallbore Rifle Matches
Aug. 18-21—Small Arms Firing School—Rifle
Aug. 22-Sept. 1—High Power Rifle Matches

NATIONAL POLICE PISTOL CHAMPIONSHIPS

June 1-8—INDIANA (Bloomington)
June 1-4—Instructors Course
June 5-8—Combat Pistol Matches

REGIONAL CHAMPIONSHIPS

SMALLBORE RIFLE PRONE

CALIFORNIA (Fresno)—South Pacific. H. C. Wright, 4663 East Olive. Apr. 6-7.
COLORADO (Denver)—Rocky Mountain. L. M. Higgins, 135 S. Hooker St. July 6-7.
CONNECTICUT (East Wallingford)—Northeastern. C. E. Lyman, III, P. O. Box 163, Middlefield. June 29-30.
FLORIDA (Dania)—Southeastern. E. A. Pool, 6855 S. W. 53rd St., Miami. June 8-9.
IDAHO (Twin Falls)—Central Pacific. G. Sanborn, P. O. Box 681. July 20-21.
INDIANA (Bristol)—Midwestern. Mrs. G. Horner, 1115 North Huey St., South Bend. June 29-30.
KANSAS (Kansas City)—Mid-Central. G. Baltzer, 840 Barnett. Aug. 10-11.
KENTUCKY (Ft. Campbell)—Central. SFC R. E. Anderson, R&P Team. June 1-2.
MARYLAND (Aberdeen Proving Ground)—Middle Atlantic. L. F. Moore, 644 Bel Air Ave. May 25-26.
MINNESOTA (Minneapolis)—Northwestern. A. Rasmussen, 5020 William Ave. July 20-21.
NEW MEXICO (Clovis)—Far Southwestern. L. Shoemate, 820 Lea St. June 1-2.
NEW YORK (Auburn)—East Central. D. Ide, RD #6. July 13-14.
NORTH CAROLINA (Asheville)—South Central. J. F. Davis, 340 Fairfax Ave. July 20-21.
OREGON (La Grande)—North Pacific. D. Wing, Rt. 2, Box 185A. July 13-14.
TEXAS (Ft. Worth)—Southwestern. J. L. Kelley, Sr., P. O. Box 3007. June 8-9.

PISTOL

CALIFORNIA (San Diego)—South Pacific. A. B. Davis, Police Range, 40th & "A" Sts., San Diego. May 3-5.
COLORADO (Denver)—Rocky Mountain. H. F. Kline, 111 South Lowell Blvd. July 20-21.
FLORIDA (Jacksonville)—Southeastern. J. W. Thomas, P. O. Box 4067. June 14-16.
HAWAII (Ft. Ruger, Oahu)—Hawaiian Pacific. Col. J. Campbell, Hawaii Nat'l Guard. May 4-5.
ILLINOIS (Rockford)—Midwestern. D. Anderson, Rockford Police Dept. June 21-23.
KENTUCKY (Ft. Knox)—South Central. W. D. Campbell, 5904 Ashby Lane, Valley Station. July 5-7.
LOUISIANA (Shreveport)—Southwestern. G. L. Scholz, P. O. Box 1098. July 20-22.
MASSACHUSETTS (North Attleboro)—Northeastern. Mrs. J. Rhind, RFD #2, Box 716. July 12-14.
MINNESOTA (Rochester)—North Central. J. O. Hall, Sr., Parkside Trailer. July 13-14.
MONTANA (Great Falls)—Northwestern. LeRoy Schelly, Rt. #1, West. June 22-23.
NEW YORK (Rochester)—East Central. Mrs. D. C. Warden, 158 Beresford Rd. July 5-7.
NORTH CAROLINA (Conover)—Mid-Central. Ira Cline, Rt. 1, Box 412. May 18-19.
NEW MEXICO (Clovis)—Far Southwestern. CWO G. H. Truiston, P. O. Box 1000, Cannon AFB. July 5-7.
VIRGINIA (Quantico)—Middle Atlantic. D. E. McIntyre, P. O. Box 212. June 28-30.
UTAH (Salt Lake City)—Central Pacific. R. D. Walker, 283 West 550 North, Clearfield. July 13-14.
WASHINGTON (Tacoma)—North Pacific. N. E. Duncan, 3823 East Kay St. June 29-30.

THE AMERICAN RIFLEMAN

HIGH POWER

ARIZONA (Phoenix)—South Pacific. L. E. Roninger, 4713 E. Virginia Ave. **May 4-5.**
 CALIFORNIA (Vallejo)—Central Pacific. S/Sgt. C. Shandemaar, Marine Barracks. **July 19-21.**
 COLORADO (Denver)—Rocky Mountain. H. F. Kline, 111 South Lowell Blvd. **June 8-9.**
 GEORGIA (Ft. Benning)—Southeastern. M/Sgt. T. H. Kirkman, USA (Ret'd), P. O. Box 1469. **May 31 & June 1-2.**
 HAWAII (Schofield Barracks)—Hawaiian Pacific. Col. J. Campbell, State of Hawaii Dept. of Defense, Ft. Ruger. **Apr. 27-28.**
 KENTUCKY (Ft. Campbell)—Mid-Western. SFC R. E. Anderson, Post R&P Team. **July 20-21.**
 MICHIGAN (Camp Grayling)—North Central. Statistical Officer, Box 3014, Melvindale. **June 29-30.**
 MISSOURI (Ft. Leonard Wood)—Southwestern. M/Sgt. L. S. Deskins, P. O. Box 83. **July 13-14.**
 MONTANA (Butte)—Northwestern. J. T. Jennings, 815 West Diamond St. **July 13-14.**
 NEW JERSEY (Ft. Dix)—Northeastern. G-3 Marksmanship Coordinator, Hqts., U. S. Army Training Center, Inf. **July 12-14.**
 NEW YORK (Ft. Niagara)—East Central. J. C. Graves, 10 Darien Pl., Buffalo. **July 13-14.**
 NORTH CAROLINA (Camp Lejeune)—South Atlantic. R. J. Romano, P. O. Box 108, Tarawa Terrace. **Apr. 6-7.**
 NORTH DAKOTA (Camp Grafton)—Great Lakes. H. Drake, R.R. #2, Fargo. **July 20-21.**
 TEXAS (Ft. Bliss)—Far Southwestern. Capt. J. M. H. Shugert, P. O. Box 6599, Marksmanship Section. **May 17-19.**
 VIRGINIA (Quantico)—Middle Atlantic. D. E. McIntyre, P. O. Box 212. **July 20-21.**
 WASHINGTON (Ft. Lewis)—North Pacific. Maj. E. L. Reams, Post G-3 Office. **Apr. 6-7.**

SMALLBORE POSITION

CALIFORNIA (Ft. Ord)—Central Pacific. Lt. Col. C. H. Gatske, 310 San Vincente, Salinas. **May 11-12.**
 COLORADO (Denver)—Rocky Mountain. V. L. Hamlin, 870 Cherry St., Apt. 108. **May 25-26.**
 CONNECTICUT (East Wallingford)—C. E. Lyman, III, P. O. Box 163, Middlefield. **June 8-9.**
 FLORIDA (Miami)—Southeastern. E. A. Pool, 6955 S.W. 53rd St. **Oct. 26-27.**
 HAWAII (Mauai)—Hawaiian Pacific. C. K. C. Leong, P. O. Box 551, Wailuku. **Apr. 20-21.**
 IDAHO (Twin Falls)—Northwestern. G. Sanborn, P. O. Box 681. **June 30.**
 INDIANA (Bristol)—Midwestern. Mrs. G. Horner, 1115 No. Huey St., South Bend. **June 23.**
 MINNESOTA (Johnsville)—Great Lakes. D. J. Wardrop, 3294 Owasso Heights Rd., St. Paul. **June 29-30.**
 TENNESSEE (Knoxville)—South Central. H. C. Hoy, 401 Grove. **July 13-14.**
 TEXAS (Brownwood)—Southwestern. Miss ReVe Lynn, 2510 Southside Dr. **Aug. 31 & Sept. 1.**
 VIRGINIA (Manassas)—Middle Atlantic. H. E. Fite, 1510 Pinewood, Falls Church. **June 29-30.**
 VIRGINIA (Virginia Beach)—South Atlantic. J. M. Voss, P.O. Box 12415, Norfolk. **July 6-7.**

OPEN NATIONAL-SECTIONAL CHAMPIONSHIPS

SMALLBORE RIFLE

CALIFORNIA (Berkeley)—R. A. Rogers, Rm. 22, Hearst Gym., Univ. of Calif. **Mar. 16-17.**
 CALIFORNIA (Burbank)—Miss M. Malm, 2814 Empire Ave. **Mar. 9-10.**
 COLORADO (Brighton)—L. Avey, 1266 Strong St. **Apr. 20-21.**
 DISTRICT OF COLUMBIA (Bolling AFB)—C. R. Fifer, 2944 2nd St., S.E., Apt. 23, Washington. **Mar. 23-24.**
 FLORIDA (Hialeah)—W. A. McAllister, 1201 Opa-Locka Blvd., Opa-Locka. **Mar. 9-10.**
 ILLINOIS (Geneseo)—C. M. Clark, 309 S. Stewart St. **Mar. 30-31 & Apr. 5-7.**
 ILLINOIS (Alton)—A. E. Pierard, 516 East Ave., Edwardsville. **Mar. 17.**
 INDIANA (Michigan City)—J. A. Johnson, P. O. Box 21, Beverly Shores. **Mar. 15-17.**
 IOWA (Whiting)—Mrs. E. C. Dean. **Mar. 22-23.**
 KANSAS (Wichita)—J. O. Close, 2057 South Poplar. **Apr. 6-7.**
 MICHIGAN (Waterford)—Betty Wyman, 1021 E. First St., Royal Oak. **Mar. 9-10.**
 MINNESOTA (Minneapolis)—D. J. Wardrop, 3294 Owasso Hts. Rd., St. Paul. **Mar. 9-10.**
 MONTANA (Big Timber)—D. Moore. **Mar. 17.**
 MONTANA (Great Falls)—D. W. Pitts, 2214-8th Ave. South. **Mar. 16-17.**
 MONTANA (Missoula)—G. L. Gilbertson, 1042 Taylor St. **Mar. 16-17.**
 NEW JERSEY (Ridgewood)—R. L. Gates, 250 Brookmere Ct. **Apr. 20-21 & 27-28.**
 NEW YORK (Schenectady)—R. D. Montanye, 229 Glen Ave., Scotia. **Mar. 29-31.**
 NEW YORK (New Cassell)—F. K. Eichler, 28 Green Dr., Roslyn. **Mar. 23-24 & 30-31.**
 NORTH DAKOTA (Donnybrook)—H. W. Anderson, Carpio. **Mar. 30-31.**
 NORTH DAKOTA (Fargo)—H. McKenzie, Box 735, Fargo. **Mar. 31.**
 OHIO (Cincinnati)—Dr. R. M. Sack, 592 North Bend Rd. **Mar. 16-17 & 23-24.**

MARCH 1963

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More than 24,000 questions were answered by NRA's Firearms Information Service during 1962! They ranged from the selection of a first gun to custom built rifles with loads to match. Members received complete, accurate and easy-to-follow solutions to their problems. You can't go wrong if you check with NRA's Firearms Information Service.

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Perhaps you have a friend who would like to be eligible for this service—along with all other benefits of membership. If so, please tell him about NRA.

Point out that the few dollars a year he pays in dues will bring him twelve issues of **THE AMERICAN RIFLEMAN**—entitle him to purchase shooting equipment through the DCM—give him the right to shoot in NRA competitions.

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USE THIS APPLICATION TO BEGIN OR RENEW YOUR MEMBERSHIP
—OR TO INVITE A FRIEND TO JOIN

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I hereby apply for membership in the National Rifle Association, including a subscription to **THE AMERICAN RIFLEMAN**, for the term indicated below. I certify that I am a citizen of the United States, 18 years of age or older; that I am not a member of any organization which has as any part of its program the attempt to overthrow the government of the United States by force or violence; that I have never been convicted of a crime of violence; and that if admitted to membership, I will fulfill the obligations of good sportsmanship and good citizenship.

(Signature) _____ 063-03

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Nominated by _____

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1600 Rhode Island Ave., N. W., Washington 6, D. C.

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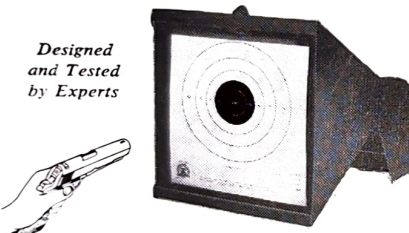
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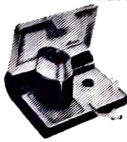
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NRA NEWS & EVENTS

OREGON (Ashland)—E. J. Brown, 970 Bellview Ave. Mar. 24.
OREGON (Portland)—W. B. McIntyre, 2514 N.E. 102. Mar. 23.
PENNSYLVANIA (Carlisle)—J. D. Burkholder, Jr., 1808 Sterretts Gap Ave. Mar. 16-17.
PENNSYLVANIA (Erie)—C. W. Hogan, 1553 West 40th. Mar. 23-24.
PENNSYLVANIA (West Chester)—J. Williamson, 32 Chatwood Ave. Mar. 23-24.
WASHINGTON (Opportunity)—C. T. Farnham, E. 9611 Mission Ave., Spokane. Mar. 3.
WEST VIRGINIA (Fairmont)—H. J. Hohmann, 1006 Indiana Ave. Apr. 20-21.
WYOMING (Buffalo)—Mrs. C. N. Zowada, Box 53. Apr. 6-7.

PISTOL

ALASKA (Juneau)—H. S. Sears, Box 1867. Mar. 30-31.
CALIFORNIA (Los Angeles)—J. R. Ganoe, 1432 Sol. Vermont Ave. Apr. 26-28.
CALIFORNIA (Presidio)—M. C. Fisher, 2530 Fillmore St., Apt. 5, San Francisco. Mar. 30-31.
COLORADO (Arvada)—G. C. Kaser, Rt. 1, Box 86. Apr. 6-7.
CONNECTICUT (New London)—LCdr. N. C. Venke, U. S. Coast Guard Acad. Mar. 15-17.
FLORIDA (Hialeah)—P. Ripple, 4892 E. 10th Ct. Apr. 21.
IDAHO (Buhl)—L. E. Van Ostran, 221 11th St. Mar. 2-3.
ILLINOIS (Great Lakes)—W. W. Broadwater, U. S. Naval Examining Center, Bldg. 2711, USNTC. Mar. 23-24.

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ILLINOIS (Rock Island Arsenal)—G. E. Taylor, 1219 Davie St., Davenport, Iowa. Mar. 16-17.
INDIANA (Elkhart)—R. H. Johnson, 116 Alfred St. Mar. 30-31.
INDIANA (Richmond)—L. K. Williams, 547 N. 19th St. Apr. 7 & 14.
MASSACHUSETTS (No. Attleboro)—Mrs. J. Rhind, RFD #2, Box 716, Kelly Blvd. Mar. 9-10.
MICHIGAN (Detroit)—R. E. Bradley, 239 Courtland #2, Highland Pk. Mar. 23-24.
MISSOURI (St. Louis)—Mrs. M. S. Dreyer, 6137 Garesche. Mar. 3.
MONTANA (Billings)—C. E. Magruder, Box 119. Mar. 3.
MONTANA (Butte)—J. T. Jennings, 815 W. Diamond St. Mar. 2-3.
NEBRASKA (Omaha)—N. L. Groom, 3911 Ames Ave. Mar. 23-24.
NEW JERSEY (Princeton)—J. O. Langston, Rt. #1, Box 48-A, Cranbury. Apr. 7, 21 & 28.
NEW MEXICO (Albuquerque)—R. W. Vivian, 1504 Hendosa Dr., N. E. Mar. 16-17.
NEW YORK (Oneida)—E. H. Arnold, 344 Seneca New York. Mar. 9-10 & 16-17.
NEW YORK (Westbury)—W. Schkolenko, 79 Myers Ave., Hicksville. Apr. 27-28.
OREGON (Medford)—D. J. Bolton, 219 Medical Center Bldg. Mar. 10.
PENNSYLVANIA (Abbottstown)—Mrs. M. E. Rhodes, R. #5, Hanover. Apr. 5-7.
PENNSYLVANIA (Southampton)—H. Raysik, 1910 Tomlinson Rd., Philadelphia. Apr. 7.
WASHINGTON (Opportunity)—L. H. E. McKinney, 421 City Hall, Spokane. Mar. 23-24.
WASHINGTON (Tacoma)—N. E. Duncan, 3823 East Kay St. Mar. 23-24.

INTERCOLLEGIATE NATIONAL- SECTIONAL CHAMPIONSHIPS

SMALLBORE RIFLE

CALIFORNIA (Berkeley)—R. A. Rogers, Rm. 22, Hearst Gym, Univ. of Calif. Mar. 23.
COLORADO (Golden)—Maj. J. C. McGill, AROTC, Colo. State Univ., Ft. Collins, Mar. 16-17.

CONNECTICUT (New London)—LCdr. R. M. Morse, Box A-9, USCG Academy. Mar. 2.
IOWA (Iowa City)—Capt. J. H. Ferguson, Det. #7, USAROTC Instr. Gp., State Univ. of Iowa. Mar. 16.
LOUISIANA (Baton Rouge)—Capt. R. L. Freshley, U. S. Army Instr. Gp. (ROTC), La. State Univ. Mar. 15-16.
MARYLAND (College Park)—A/IC J. N. Blackard, AFROTC Det. #330, Univ. of Md. Mar. 9.
MICHIGAN (East Lansing)—Maj. E. T. Tabbert, Det. 3, USAROTC Instr. Gp., Mich. State Univ. Mar. 30.
MONTANA (Bozeman)—SFC R. Booe, AROTC Instr. Gp., Mont. State College. Mar. 1-2.
NEBRASKA (Lincoln)—T. A. Berry, 2000 Lake St., Univ. of Nebr. Mar. 29-31.
NEW YORK (Buffalo)—Lt. Col. J. F. Greene, Jr., PMS, 2001 Main St. Apr. 6.
NEW YORK (Jamaica, L. I.)—Tito J. Balestrieri, c/o St. John's Univ., Grand Central & Utopia Parkways. Mar. 9.
NEW YORK (Kings Point)—CWO R. W. Ach, U. S. Merchant Marine Academy. Mar. 2.
NEW YORK (West Point)—Capt. C. Hosmer, III, Dept. of Tactics, Hqts. 1st Regt., U. S. Military Academy. Mar. 9.
NORTH DAKOTA (Fargo)—SFC G. T. Hoff, Det. 12, USAROTC Instr. Gp., N. Dak. State Univ. of A&S. Mar. 30.
OKLAHOMA (Stillwater)—Capt. J. B. Hemmer, USA Instr. Unit (ROTC), Okla. State Univ. Mar. 15-17.
PENNSYLVANIA (Grove City)—Capt. E. V. Coggins, Det. #145, AFROTC, Grove City College. Mar. 22-23.
PENNSYLVANIA (Wayne)—SFC L. M. Pajkowski, Det. 14 ROTC Instr. Gp., Valley Forge, Mil. Academy. Mar. 3.
SOUTH CAROLINA (Charleston)—Capt. D. C. Hilbert, c/o The Citadel. Mar. 29-30.
TENNESSEE (Johnson City)—Sgt. K. Honaker, Mil. Dept., E. Tenn. State Coll. Mar. 22-23.
TEXAS (Austin)—M/Sgt. J. B. Dickerson, U. S. Army Instr. Unit. ROTC, Univ. of Tex. Mar. 30.
VIRGINIA (Blacksburg)—Capt. C. H. Benn, U. S. Army ROTC Instr. Gp., VPI. Mar. 2.
WEST VIRGINIA (Morgantown)—Maj. C. Means, U. S. Army ROTC Det., W. Va. Univ. Mar. 9.

PISTOL

COLORADO (USAF Academy) R. D. James, Asst. Dir. for Intercollegiate Athletics. Mar. 2.
MARYLAND (Annapolis)—Capt. C. E. Caudill, USMC, Mathematics Dept., U. S. Naval Academy. Mar. 2.
NORTH DAKOTA (Fargo)—SFC G. T. Hoff, Rifle Coach, N. Dak. State Univ. Mar. 30.
OHIO (Columbus)—Capt. G. T. Scott, 204 Mill Science Bldg., 2121 Tuttle Park Pl., Ohio State Univ. Apr. 6.
PENNSYLVANIA (Lewisburg)—Capt. W. Evans, Team Faculty Advisor, Det. 18, 2152-04 USA ROTC Instr. Gp., Bucknell Univ. Mar. 2.
TEXAS (Arlington)—SFC R. Calvert, AROTC Instr. Unit, Arlington State College. Mar. 2.

JUNIOR NATIONAL-SECTIONAL CHAMPIONSHIPS

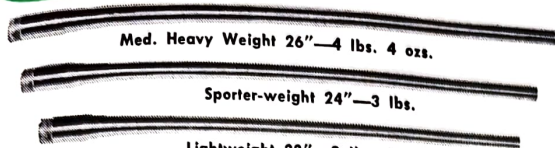
SMALLBORE RIFLE

ALASKA (Fairbanks)—Mrs. Mildred Edmunds, P. O. Box 1618. Apr. 27.
ARIZONA (Tempe)—F. O. Brown, AFROTC Det. 25, Ariz. State Univ. Mar. 9-10.
CALIFORNIA (Burbank)—Miss M. Malm, 2814 Empire Ave. Mar. 23-24 & 30-31.
CALIFORNIA (Merced)—R. R. Bond, Chief of Police, P. O. Box 309. Mar. 23-24.
CALIFORNIA (Willows)—Betty Landberg, Box 826. Mar. 30-31.
CANAL ZONE (Far Fan Beach)—D. Laird, Jr., Box 604, Curundu. May 4.
COLORADO (Denver)—Capt. R. S. Bell, 28th Ave. & Gilpin St. Mar. 16.
DELAWARE (Wilmington)—R. S. Moore, 30 Lawson Ave., Claymont. May 11-12.
FLORIDA (Key West)—B. Freer, 1621 Rose St. May 4-5.
FLORIDA (Orlando)—W. Beitt, 1411 Bryn Mawr Ave. Mar. 16-17.
IDAHO (Boise)—R. K. Walker, P. O. Box 2863. Mar. 30-31.
INDIANA (New Albany)—H. Francis, 1331 Lincoln Ave. Mar. 30.
KANSAS (Wichita)—J. O. Close, 2057 S. Poplar. Apr. 20-21.
MAINE (Ft. Williams)—H. E. Frank, 120 Revere St., Portland. Apr. 6-7.
MARYLAND (Salisbury)—R. Sepulveda, Rt. #3, Dagsboro Rd. Mar. 9.
MASSACHUSETTS (Boston)—F. E. Procum, 12 Nimitz Circle, Natick. Apr. 13.
MICHIGAN (Ann Arbor)—C. J. Barclay, 601 W. Stadium Blvd. Apr. 27-28.
MICHIGAN (Marquette)—W. R. Schwenke, 1307 North 7th St. Mar. 9-10.
MICHIGAN (Temperance)—C. Hartwick, 866 Lotus Dr., Erie. May 4-5.
MINNESOTA (Minneapolis)—J. A. Erickson, 3416-35th Ave. S. Apr. 7.
MISSOURI (St. Louis)—Rev. M. Hagan, S.J., 4970 Oakland. Mar. 9-10.

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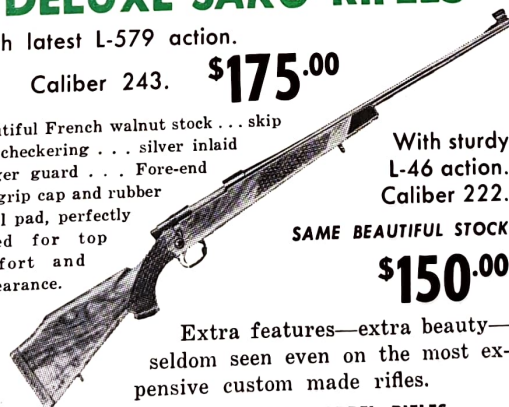
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BOB BROWNELL'S • MONTEZUMA, IOWA

NRA NEWS & EVENTS

MONTANA (Billings)—M. P. Mead, D.O., 346 Beverly Hill Blvd. **Apr. 27-28.**
MONTANA (Missoula)—R. Hoerner, 1937 S. 9th West. **Apr. 28.**
NEW JERSEY (Raritan)—Rev. A. J. Tobey, Seton Hall Univ., South Orange. **Mar. 30-31.**
NEW YORK (Auburn)—F. R. Volk, 26 Richardson Ave. **Mar. 30-31 & Apr. 6-7.**
NEW YORK (Deposit)—J. Scoblick. **Mar. 15-16.**
NEW YORK (New York City)—Mrs. H. Shapiro, 2620 Ocean Parkway, Brooklyn. **Mar. 23.**
NEW YORK (Schenectady)—C. C. Hartellus, Box 200, Sacandaga Rd., Scotia. **Mar. 9.**
NEW YORK (Snyder)—H. E. Maier, 248 Dexter Terr., Tonawanda. **Mar. 14-16 & 23.**
OHIO (Cuyahoga Falls)—M. T. Hillhouse, 1282 Carnegie Ave., Akron. **Mar. 16-17.**
OHIO (St. Marys)—J. Schelby, 1080 Knoxville Rd. **Mar. 23-24.**
OKLAHOMA (Ft. Sil)—J. J. Kaufmann, Qtrs. 5530-B Hammel Rd. **Apr. 20-21.**
OREGON (Bend)—R. Cecil, 1118 E. 8th. **Apr. 13.**
OREGON (Winchester)—H. L. Bailey, 2161 W. Foothill Dr., Roseburg. **May 4-5.**
PENNSYLVANIA (Emporium)—G. M. Mitchell, 200 W. 4th St. **Apr. 20 & 27.**
PENNSYLVANIA (Erie)—R. M. Wolfram, RD-#2, Lake Pleasant Rd., Waterford. **Apr. 20-21.**
PENNSYLVANIA (Harmerville)—K. F. Humes, 141 Riverview Ave., Pittsburgh. **Mar. 23-24.**
PENNSYLVANIA (West Chester)—S. W. Johnson, 1316 Red Fox Lane. **Apr. 20-21.**
SOUTH DAKOTA (Pierre)—J. G. Schooler, 2002 S. Jefferson. **Apr. 27-28.**
TENNESSEE (Nashville)—W. E. Ward, III, P. O. Box 539. **Apr. 27-28.**
TEXAS (Brownwood)—ReVe Lynn, 2510 Southside Dr. **Apr. 27-28.**
TEXAS (Center)—J. W. Parker, 419 King St. **Apr. 6-7.**
TEXAS (Orange)—J. W. Kuhn, 1713 Hart. **Mar. 23-24.**
VIRGINIA (Quantico)—Cpl. D. E. McIntyre, P. O. Box 212. **May 4-5.**
WASHINGTON (Seattle)—B. Dunn, 10726 25th SW. **Mar. 23.**
WISCONSIN (Neenah)—J. W. Casper, 109 W. Columbian Ave. **Mar. 23.**
WISCONSIN (Sparta)—E. J. Lucas, 801 N. Water. **Apr. 21.**
WYOMING (Cheyenne)—J. Egan, Jr., 1210 E. 5th Ave. **Apr. 27-28.**

JUNIOR REGIONAL OUTDOOR POSITION

FLORIDA (Sarasota)—E. H. Schlarb, 1717 Rita St. **Apr. 27.**
INDIANA (Bristol)—Mrs. O. K. Horner, 1115 North Huey St., South Bend. **May 26.**
MICHIGAN (Waterford)—Marianne Driver, 8469 Quandt, Allen Pk. **May 19.**
MINNESOTA (Minneapolis)—J. A. Erickson, 3416-35th Ave. South. **May 18.**
NEW JERSEY (Roseland)—Winnifred A. Carr, P. O. Box 557. **May 11.**
NEW YORK (Albany)—H. W. Ristau, 28 David Ave., Troy. **May 26.**
NEW YORK (Auburn)—F. R. Volk, 26 Richardson Ave. **May 26.**
NORTH CAROLINA (Conover)—O. E. Wolff, 3579-1st Ave. Circle, Hickory. **May 4.**
PENNSYLVANIA (Dauphin)—Mrs. C. D. McElwee, R.D. #1. **May 4-5.**
TEXAS (Ft. Worth)—J. C. Tittle, Jr., 5312 Wooten Dr. **May 4.**
WASHINGTON (Seattle)—G. H. Bailey, 204 19th Ave., Kirkland. **May 25.**

STATE CHAMPIONSHIPS

SMALLBORE RIFLE

ARIZONA (Mesa)—D. K. Martin, 3024 E. Montecito Ave., Phoenix. **Mar. 23-24.**
ARIZONA (Phoenix)—Jr. Position. H. E. Taylor, 59 W. Harrison St., Chandler. **Apr. 20.**
CALIFORNIA (Duarte)—Jr. Position. W. E. Kelly, 4001 Fish Canyon Rd. **May 19.**
COLORADO (Brighton)—Eastern Sec. L. Avey, 1266 Strong St. **Mar. 30-31.**
COLORADO (Montrose)—Western Sec. G. E. Yelton, RR 3, Box 53-E. **Mar. 30-31.**
IDAHO (Twin Falls)—Junior. G. Sanborn, P. O. Box 681. **Mar. 16-17.**
ILLINOIS (Addison)—A. Overtom, 3626 So. Scoville Ave., Berwyn. **Apr. 19-21.**
ILLINOIS (Great Lakes)—Junior. L. E. DeMars, 3810 W. 57th Pl., Chicago. **Apr. 27-28.**
INDIANA (Muncie)—J. A. Wood, 3100 So. Jefferson St. **Apr. 6-7.**
MASSACHUSETTS (Bedford)—Capt. J. D. Welch, USAF, 40 Eliot Rd. **Mar. 23-24.**
MICHIGAN (Waterford)—R. M. Gubbins, 16249 Buckingham Rd., Birmingham. **Apr. 20-21.**
MICHIGAN (Waterford)—Jr. Position. Mrs. M. Driver, 8469 Quandt, Allen Pk. **May 18.**
MONTANA (Laurel)—Southern Div. J. R. Olson, 619 Lewis Ave., Billings. **Mar. 30-31.**
MONTANA (Missoula)—S.W. Div. L. F. Swartz, 1637 So. 7th St. West. **Mar. 30-31.**
MONTANA (Missoula)—Position. L. F. Swartz, 1637 So. 7th St. West. **May 5.**

NEBRASKA (Omaha)—Eastern Div. S. DiMauro, 5312 "A" St. **Apr. 20-21.**
NEW HAMPSHIRE (Portsmouth)—W. E. Caswell, Box 45, New Castle. **Mar. 16-17.**
NORTH DAKOTA (Cando)—D. Haugen. **Mar. 9-10.**
OHIO (Columbus)—J. F. Lietz, 745 W. Clinton St., Napoleon. **Mar. 2-3. Team. Apr. 27-28.**
OKLAHOMA (Claremore)—H. E. Malham, 1411 N. Kingston Ave., Tulsa. **Mar. 2-3.**
OKLAHOMA (Norman)—Junior. J. K. Taylor, 608 Mission Pl., Anadarko. **Mar. 30-31.**
OKLAHOMA (Ponca City)—E. C. Olinger, 1601 Monument Rd. **May 18-19.**
SOUTH DAKOTA (Pierre)—T. D. Hand, Midland. **Apr. 6-7.**
TENNESSEE (Clinton)—D. L. DeWalt, Ridgeview Dr. **Mar. 1-3.**
TENNESSEE (Knoxville)—H. W. Curtis, III, 3203 Curtis Rd. **May 25-26.**
UTAH (Layton)—R. D. Walker, 283 W. 550 North, Clearfield. **Apr. 27-28.**
VERMONT (Northfield)—L. Walker, 136 Fairview St., Barre. **Mar. 31 & Apr. 7.**
VIRGINIA (Ft. Belvoir)—W. E. Ackerknecht, 6247 No. 22nd Rd., Arlington. **Mar. 9-10.**
VIRGINIA (Ft. Belvoir)—Junior. A. P. McHale, 7305 Falmouth St., Springfield. **Apr. 6-7.**
WASHINGTON (Opportunity)—Eastern Sec. C. T. Farnham, E. 9611 Mission Ave., Spokane. **Mar. 16-17.**
WASHINGTON (Opportunity)—Junior Eastern Sec. R. D. Kauffman, E. 10805 7th Ave., Spokane. **Apr. 6.**
WASHINGTON (Wenatchee)—Central Sec. G. B. Tiffany, 1345-9th St. **Mar. 9-10.**
WISCONSIN (Fond du Lac)—F. C. Krist, 2004 Chester Pl. **Mar. 2-3.**
WYOMING (Laramie)—Junior. Maj. C. J. Reed, Box 3167, University Station. **Mar. 30-31.**

HIGH POWER RIFLE

MICHIGAN (Camp Grayling)—E. Brehm, 4917 Chase, Dearborn. **May 25-26.**
SOUTH CAROLINA (Parris Island)—D. E. Thomas, Jr., P. O. Box 502, MCRD. **Mar. 15-17.**

PISTOL

ALABAMA (Birmingham)—L. A. Doyle, Jr., 1132 So. Shadesview Terr., Homewood. **May 4-5.**
CALIFORNIA (Ft. Ord)—K. M. Gaffaney, 1926 Janette Lane, Anaheim. **Apr. 5-7.**
ILLINOIS (Great Lakes)—W. W. Broadwater, U.S. Naval Examining Ctr., Bldg. 2711, USNCTC. **Apr. 20-21.**
INDIANA (Muncie)—J. A. Wood, 3100 So. Jefferson St. **Apr. 28 & May 5.**
MASSACHUSETTS (Lowell)—C. F. Taylor, Jr., 28 Quigley Ave., North Chelmsford. **Apr. 6-7.**
MONTANA (Billings)—Eastern Div. C. E. Magruder, Box 119. **Mar. 24.**
MONTANA (Great Falls)—Western Div. O. F. Biberdorf, 500-25th Ave. N.E. **Mar. 23-24.**
NEBRASKA (Omaha)—Mrs. N. L. Groom, 3911 Ames Ave. **May 25-26.**
NEW HAMPSHIRE (Manchester)—E. W. Murphy, 70 Roysan St. **Apr. 20-21.**
NEW YORK (Binghamton)—Southern Div. M. R. Langdon, 1026 Chenango St. **Mar. 23-24 & 30-31.**
NEW YORK (Colonie)—Albany Sec. J. J. Finn, Jr., 1601-8th Ave., Watervliet. **Mar. 23-24, 30-31 & Apr. 6-7.**
NEW YORK (West Webster)—Northern Div. M. C. Herz, 1345 Park Ave., Rochester. **Mar. 22-24 & 29-31.**
NORTH DAKOTA (Valley City)—T. P. Elliott, 242-2nd Ave. S.W. **Mar. 16-17.**
OHIO (Canton)—W. E. Harding, 303 Lincoln Ave., N.W. **Apr. 20-21.**
RHODE ISLAND (W. Greenwich)—R. T. Flagg, 264 George Arden Ave., Warwick. **Apr. 20-21.**
TENNESSEE (Memphis)—J. V. Orlando, P. O. Box 9328, NAS. **May 18-19.**
WASHINGTON (Yakima)—J. G. Phillips, 324 Wyman Dr. **Mar. 2-3.**
WISCONSIN (Kenosha)—R. Schoenfeld, 6916 30th Ave. **Mar. 9-10.**

OTHER TOURNAMENTS

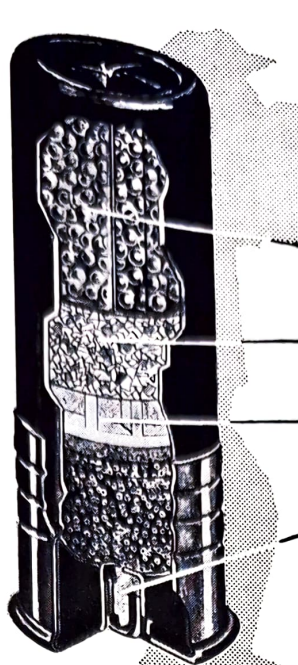
SMALLBORE RIFLE

ALABAMA (Birmingham)—(A) L. A. Doyle, 1132 So. Shadesview Terr., Homewood. **Mar. 24.**
ARIZONA (Phoenix)—Western Wildcats 6400. O. H. Morris, P. O. Box 1723, Hobbs, N. Mex. **Feb. 28-Mar. 3.**
CALIFORNIA (El Monte)—Western Nationals. Mrs. V. Kline, 2484 Woodlyn Rd., Pasadena. **May 4-5.**
CALIFORNIA (Modesto)—D. D. Jenner, 1944 Ralston Ct. **Mar. 9-10.**
CALIFORNIA (San Ysidro)—(A) D. W. Poston, 1030 Barrett Ave., Chula Vista. **Mar. 17, Apr. 21, May 12.**
CALIFORNIA (Sharp Park)—Northern Calif. Jr. T. Weller, 1507 Posen Ave., Albany. **Mar. 24.**
COLORADO (Arvada)—Spring. G. C. Kaser, Rt. 1, Box 86. **Mar. 16-17.**
COLORADO (Arvada)—(A) Invitational. Mrs. M. Annand, 2135 Illinois St., Golden. **May 5.**

COLORADO (Brighton)—(A) Northern Div. E. Gain, 1425 25th Ave., Greeley. **Mar. 2-3.**
COLORADO (Colorado Springs)—R. A. Wright, 2319 W. Bijou. **Mar. 9-10.**
COLORADO (Denver)—(A) Central Div. T. Rhone, 1478 South Wolf St. **Mar. 24, May 19.**
DISTRICT OF COLUMBIA—(A) Junior. Capt. J. A. White, 10407 Leslie St., Silver Spring, Md. **Mar. 16, Apr. 20.**
FLORIDA (Hialeah)—(A) Monthly Jr. W. A. McAllister, 1201 Opa-Locka Blvd., Opa-Locka. **Apr. 20, May 18.**
FLORIDA (Miami)—Sawgrass. T. Washington, 573 Mokena Dr., Miami Springs. **Mar. 21-24.**
FLORIDA (Winter Haven)—Silver Dollar Round-up. C. F. McCubbin, 3360 Ave. S, N.W. **Mar. 29-31.**
HAWAII (Schofield Barracks)—(A) Monthly. R. Lenzner, G-3 Marksmanship, USARHAW, APO 957, San Francisco, Calif. **Mar. 29, Apr. 26, May 24.**
IDAHO (Garden City)—(A). K. E. Black, 3905 Catalina Rd., Boise. **Mar. 10, Apr. 7.**
ILLINOIS (Chicago)—Southtown Jr. D. T. Trusk, 6130 S. Menard Ave. **Mar. 29-31.**
ILLINOIS (Libertyville)—Season Opener. O. J. Marzetta, 2355 Woodlawn Rd., Northbrook. **Mar. 19.**
ILLINOIS (Peoria)—Spring. J. D. Johnson, 5618 N. Biltmore. **May 5.**
ILLINOIS (Wheaton)—Invitational. B. E. Putman, 814 Ellis Ave. **Mar. 8-10.**
INDIANA (Vincennes)—Wild Strawberry. R. J. Dogaux, Jr., 2435 Wabash Ave. **May 26.**
LOUISIANA (Marrero)—(A). J. A. Moroney, 1123 2nd St., New Orleans. **Mar. 10.**
MASSACHUSETTS (Pittsfield)—(A) Western Mass. R. W. Amstutz, 82 Mountain Dr. **Apr. 5-7.**
MICHIGAN (Marquette)—Upper Peninsula Spring. W. R. Schwenke, 1307 N. 7th St. **Mar. 30-31.**
MINNESOTA (Grand Forks)—(A) Spring. W. G. Coulter, Box 1048. **Mar. 24.**
NEBRASKA (Scotts Bluff)—Platte Valley. W. I. Troyer, 2011 3rd Ave. **Mar. 16-17.**
NEVADA (Reno)—Open. C. Block, 590 Peckham Lane. **Mar. 2-3.**
NEW MEXICO (Cannon AFB)—CWO G. H. Truston, P. O. Box 1000. **May 11-12.**
NEW YORK (New York City)—(A). Dr. I. Tekulsky, 168 W. 86th St. **May 19.**
NORTH CAROLINA (Conover)—(A) Monthly Jr. O. E. Wolff, 3579-1 Ave Circle, N.W., Hickory. **Mar. 3, Apr. 7, May 5.**
OHIO (Marietta)—Spring Open. R. J. Donnelly, 720 3rd St. **May 4-5.**
OHIO (Toledo)—A. Moritz, 5871 Neill Ave., Rt. 1, Walbridge. **Mar. 24.**
OKLAHOMA (Norman)—(A) Monthly. H. O'Neil, P. O. Box 3164, State Cap. Sta., Okla. City. **Mar. 10, Apr. 14, May 12.**
OREGON (Burns)—(A) Jr.-Sr. J. Davidson, Box 1093. **Apr. 21.**
TEXAS (Addicks)—(A) Monthly. R. J. DeWitt, 7015 Edgemoor. **Mar. 24.**
TEXAS (Camp Bullis)—Monthly Int'l. S/Sgt. T. M. Hardgrave, Box 223, Lackland AFB. **Mar. 2-3, May 5.**
TEXAS (Canyon)—(A) Golden Spread. E. E. Fabianke, 2612 Rule Ave., Amarillo. **Mar. 23-24.**
TEXAS (Dallas)—Prone & Position. R. E. Gordon, 11463 Cromwell Ct. **Apr. 27-28.**
TEXAS (El Paso)—(A) Southwest. Col. R. R. Moorman, ROTC Dept., Texas Western College. **Feb. 28-Mar. 2.**
TEXAS (Houston)—(A) Prone & Position. R. J. DeWitt, 7015 Edgemoor. **Mar. 9-10.**
VIRGINIA (Virginia Beach)—(A) Early Birds. J. M. Voss, P. O. Box 12415, Norfolk. **Mar. 3.**
(A) Monthly. Apr. 21. (A) Monthly Prone & Position. May 5.
WYOMING (Buffalo)—(A) Offhand. Mrs. M. Zowada, Box #53. **Mar. 23-24.**
WYOMING (Sheridan)—G. F. Kelly, 844 Absaraka St. **Mar. 2-3.**

HIGH POWER RIFLE

ARIZONA (Phoenix)—Long Range. L. E. Roninger, 4713 E. Virginia Ave. **Mar. 9-10.**
ARIZONA (Tucson)—(A) O'Connell. Mrs. H. Peterson, 741 Santa Paula. **Mar. 24. (A) Sellers Memorial. Apr. 21.**
ARKANSAS (Camp Robinson)—(A) Spring Invitational. Miss M. J. Taylor, P. O. Box 4407, Asher Ave. Sta., Little Rock. **Mar. 10.**
CALIFORNIA (Milpitas)—(A). E. J. Davis, 298 W. Taylor St., San Jose. **Mar. 17, Apr. 21, May 12.**
CALIFORNIA (Santa Barbara)—(A). W. G. Hendry, 719 Alameda Padre Serra. **May 12.**
CALIFORNIA (Twenty-nine Palms)—Hi-Desert Masters Invitational. L. E. Johnson, Hq., Co., Marine Corps Base. **Mar. 1-3.**
CALIFORNIA (Vacaville)—(A). R. M. Champlain, 5250 Elbert Way No., Highlands. **Mar. 10, Apr. 14.**
COLORADO (Bailey)—Spring. H. F. Kline, 111 So. Lowell Blvd., Denver. **Apr. 21.**
DELAWARE (Bridgeville)—J. Blades. **Mar. 24.**
JAPAN (Camp Zama)—(A). Capt. F. W. Proudfoot, 2127th Comm. Sq., CMR, Box 1571, APO 328, San Francisco, Calif. **Mar. 30-31, Apr. 27-28, May 25-26.**
INDIANA (Putnamville)—(A) Bonanza. G. D. Cue, 308 W. Paris St., Frankfort. **May 19.**



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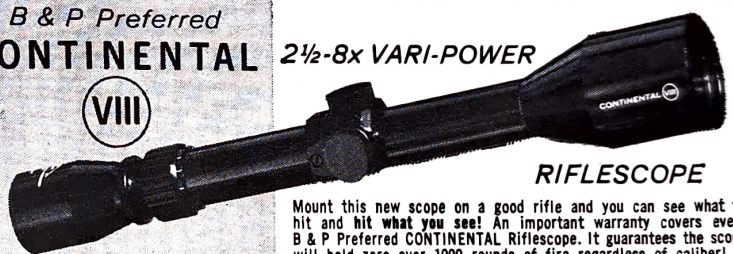


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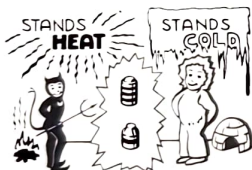
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NRA NEWS & EVENTS

MICHIGAN (Camp Grayling) (A) Spring Warm-Up. T. W. Burns, 4406 Alter Rd., Detroit. Apr. 20-21.

MINNESOTA (Johnsville)—(A). R. C. Van Hoe, 2700 Major Ave., No. Minneapolis. May 5.

MISSOURI (Ft. Leonard Wood)—Spring. L. S. Deskins, P. O. Box 83. Apr. 6-7.

NEVADA (Boulder City)—(A). W. A. Jonasen, Box 343. Mar. 23-24.

NEW MEXICO (Cannon AFB)—CWO G. Truston, P. O. Box 1000. May 4-5.

NEW MEXICO (Ruidoso)—Spring. R. H. Hedgecock, Box 73. Apr. 27-28.

NEW YORK (Colonie)—1000-Yd. J. R. Spain, 26 Homestead Ave., Albany. May 18-19.

NORTH CAROLINA (Camp Lejeune) — Pre-Spring. J. I. Westfall, P. O. Box 108, Tarawa Terr. Mar. 23-24.

OHIO (Malvern)—(A). A. W. Beck, 6956 Oakhill Ave., N. E. Alliance. May 18-19.

OREGON (Salem)—(A). G. F. Steltenpohl, 1080 Lavona Dr., N.W. May 18-19.

OREGON (Sherwood)—(A). H. A. Gavin, Rt. 3, Box 393. May 25-26.

TENNESSEE (Knoxville) — Spring Smoky Mt. H. W. Curtis, III, 3203 Curtis Rd. May 4-5.

TENNESSEE (Oak Ridge)—Early-Bird. E. M. Foley, 107 S. Beverly Circle. Apr. 6-7. Great Smoky Mountain Area. May 18-19.

TEXAS (Houston)—(A). M. Rainey Bunch, 4737 Redstart. Mar. 17. Apr. 20-21, May 19.

UTAH (Ft. Douglas)—R. D. Walker, 283 W. 550 N. Clearfield. May 12.

VIRGINIA (Quantico)—Sec., MCS R&P Club, P. O. Box 212. Mar. 30-31. (A) Apr. 20.

WASHINGTON (Monroe)—(A) Monthly. N. L. Carson, 6005 Dexter, Everett. Apr. 21, May 12.

WASHINGTON (Puyallup)—(A). T. F. Lazzari, 1619 S. 84th St., Tacoma. Mar. 3.

WASHINGTON (Tacoma)—(A) Roy Davis, J. Fale, 7609 So. Thompson. Mar. 10. (A) Mt. Tacoma. May 5.

WASHINGTON (Tacoma)—Blue Ox Trophy & West District. T. F. Lazzari, 1619 So. 84th St. May 18-19.

PISTOL

ALABAMA (Birmingham)—(A). L. A. Doyle, Jr., 1132 So. Shadesview Terr., Homewood. Mar. 6, Apr. 3, Apr. 7, May 1.

ARKANSAS (Little Rock)—Mid-South Spring. F. C. Hamlin, Jr., 5724 Country Club So. May 11-12.

CALIFORNIA (Ft. Jones)—(A). W. Voight, Rt. 1, Box 109. Apr. 21.

CALIFORNIA (Los Angeles)—(A) 2700. E. C. Bradley, 7922 McConnell Ave. Mar. 4, May 13 & 20 & 27.

CALIFORNIA (Los Angeles)—Encuentro De Los Pistoleros. K. M. Gaffaney, 1880 Academy Dr. Mar. 16, Apr. 20, May 18.

CALIFORNIA (Orange)—Monthly. B. W. Sutton, P. O. Box 1042, Santa Ana. Mar. 17, Apr. 21, May 19.

CALIFORNIA (Redondo Beach)—Monthly. Mrs. D. Warner, 1125 Statler St., San Pedro. Mar. 10, May 12.

CALIFORNIA (Richmond)—(A). R. G. Newcomb, 2771 Sheldon Dr. Mar. 10, Apr. 14, May 12.

CALIFORNIA (Sacramento)—(A). L. I. Mesch, 4356 Ullyses Dr. Mar. 17, Apr. 21, May 19.

CALIFORNIA (San Diego)—Southland. A. Davis, 40th & A Sts., Mar. 2-3, Apr. 6-7.

CALIFORNIA (San Fernando)—D. C. Taylor, RR #1, Box 14. Mar. 24, April 28, May 26.

CALIFORNIA (San Rafael)—(A) Monthly Invit. J. E. Gorman, 93 Marina Ct. Mar. 17, Apr. 21.

CALIFORNIA (Visalia)—(A) 2700. F. D. Bentzen, 215 So. Johnson St. Mar. 24, May 26.

COLORADO (Denver)—(A) Central Div. J. Ashinurst, 4680 W. Monorief Pl. Mar. 10.

COLORADO (Pueblo)—R. A. Wright, 2319 W. Bijou, Colorado Springs. Mar. 30-31.

DISTRICT OF COLUMBIA (NRA Range)—(A) Police. S. A. Mate, 1600 Rhode Island Ave., N.W. Mar. 2-3.

FLORIDA (Coral Gables)—(A) Monthly 1800. Capt. A. T. Kelley, Jr., P. O. Box 43. Mar. 3, Mar. 31, Apr. 28, May 26.

FLORIDA (Hialeah)—(A). E. P. Ripple, 4892 E. 10th Court. Mar. 24.

FLORIDA (Jacksonville)—Dixie. J. W. Thomas, P. O. Box 4067. Mar. 7-9. (A) 2700. Apr. 7, May 5.

FLORIDA (Miami)—Flamingo. A. T. Kelley, Jr., P. O. Box 43, Coral Gables. Mar. 18-21.

FLORIDA (Miami)—(A) Monthly 1800. C. H. Rhodes, Box E-508, 8800 S. W. 8th St. Mar. 17, May 12.

FLORIDA (Tampa)—National Mid-Winter. Mrs. C. A. Brown, P. O. Box 253. Mar. 12-15.

GEORGIA (Ft. Benning)—Southern Shakedown. M/Sgt. T. Kirkman, P. O. Box 1469. May 31-June 3.

HAWAII (Hilo)—(A) Orchid Isle. C. Victorine, P. O. Box 7870. Mar. 2-3.

HAWAII (Honolulu)—2700. M/Sgt. W. E. Larson, 1798B So. Lawrence Rd., MCAS, Kaneohe, Hawaii (Honolulu)—(A) Monthly. H. J. Falk, 1126 Aalapa Dr., Kailua. Apr. 7.

IDAHO (Garden City)—(A). W. McDaniel, 1715 N. 12th St., Boise. Mar. 10, Apr. 7.

ILLINOIS (Carbondale)—2700. J. S. Mathias, P. O. Box 614. Mar. 17, May 5. 1800. Apr. 7.

ILLINOIS (Chicago)—(A) Practice. A. A. Facerber, 129 West Park Ave., Wheaton. Mar. 2-3, Apr. 13-14.

ILLINOIS (Rockford)—Spring. D. Anderson, Rockford Police Dept. May 12.

ILLINOIS (Waukegan)—(A) Monthly. L. C. Chianelli, Box 586. Mar. 16-17, Apr. 6-7. Registered 2700. May 25-26.

INDIANA (Bristol)—Mrs. G. R. Horner, 1115 North Huey St., South Bend. May 19.

INDIANA (Richmond)—(A) Monthly. L. K. Williams, 547 N. 19 St. Mar. 10.

INDIANA (South Bend)—(A). Mrs. G. R. Horner, 1115 N. Huey St. Mar. 9-10.

JAPAN (O'Misawa)—(A). W. R. Bowen, 61399 Support Sq., Box 134, APO 919, San Francisco, Calif. Apr. 7, May 5.

KENTUCKY (Ft. Knox)—(A) Monthly. W. D. Campbell, 5904 Ashby Lane, Valley Station. Mar. 17, Apr. 21, May 19.

LOUISIANA (New Orleans)—(A) Monthly. J. C. Hattier, Box 564, Metairie. Mar. 24, Apr. 28, May 26.

LOUISIANA (Shreveport)—Early Spring 2700. G. L. Scholz, P. O. Box 1098. Mar. 10. Holiday-in-Dixie. Apr. 27-28.

MAINE (Augusta)—(A). H. Gorton, 64 So. Grove St. Mar. 3.

MARYLAND (Ft. Geo. G. Meade)—(A) Eskimo. Statistical Officer, Ft. Geo. G. Meade R&P Club. Mar. 9-10.

MARYLAND (Lanham)—(A) 2700. J. H. Barron, 4410 - 30th St., Mt. Rainier. May 18-19.

MARYLAND (Marriottsville)—(A) Patapsco Spring Warm-Up. J. G. Silkworth, 2806 Hilldale Ave., Baltimore. May 25-26.

MASSACHUSETTS (Sharon)—South Shore. R. A. Baxter, 46 Norton Dr., Norwood. Mar. 2-3.

MICHIGAN (Davison)—Spring. H. E. Maffin, P. O. Box 52. Mar. 3.

MICHIGAN (Mt. Clemens)—Mrs. E. E. Bradley, 239 Cortland #2, Highland Pk. May 26.

MICHIGAN (Jackson)—(A). Sgt. H. E. Rutledge, 216 E. Washington Ave. May 12.

MINNESOTA (Rochester)—(A). L. Wright, 713 18th Ave. N.E. Apr. 19-21.

MISSOURI (Ft. Leonard Wood)—Spring. L. S. Deskins, P. O. Box 83. Apr. 6-7.

MISSOURI (Joplin)—(A). S. Harrod, 528 West 32nd. Mar. 10, Apr. 21, May 19.

MONTANA (Great Falls)—Winter League Shoot-Off. O. F. Biberdorf, 500 - 25th Ave. N.E. Apr. 6-7.

NEBRASKA (Bridgeport)—(A) Open. B. J. Barnes, Box 572. May 5.

NEBRASKA (Wauneta)—(A). Miss R. E. Justice. Mar. 10.

NEVADA (Boulder City)—(A). W. A. Jonasen, Box 343. Mar. 8, Mar. 10.

NEW HAMPSHIRE (Barrington)—(A) Monthly. H. W. Berounsky, 16 Brackett Rd., Portsmouth. May 26.

NEW HAMPSHIRE (Nashua)—Granite State Open. G. E. Procter, 46 Summer St. Mar. 23-24.

NEW JERSEY (Lincoln Park)—(A) Police Combat. E. J. Keller, 14 County Rd., Demarest. Apr. 19-21.

NEW JERSEY (South River)—Spring. W. J. Engel, Box 41, Teaneck. May 11-12.

NEW MEXICO (Cannon AFB)—(A) Monthly 1800. CWO G. H. Truston, P. O. Box 1000. Mar. 17, Apr. 21, May 19. 2700. Mar. 22-24. Apr. 26-28, May 24-26.

NEW YORK (Buffalo)—Niagara Frontier. C. Kroh, 4795 Genesee, Cheektowaga. Apr. 19-21.

NORTH CAROLINA (Camp Lejeune)—Azalea Festival 2700. J. I. Westfall, P. O. Box 108, Tarawa Terr. Mar. 30-31.

NORTH CAROLINA (Ft. Bragg)—(A) Monthly. SFC A. Spenser, Jr., 82nd Marksmanship Det. Mar. 3.

NORTH CAROLINA (Kinston)—Spring S. Atlantic. Col. L. O. Williams, USMC (Ret'd.), RR #3, Box 233-A, Jacksonville. Apr. 18-21.

NORTH CAROLINA (Wilmington)—(A) 2700. H. D. Johnson, 1709 Dawson St. Mar. 2-3. 1800. Apr. 7, May 5.

OHIO (Akron)—(A) Spring. C. F. Wade, 400 Noah Ave. Mar. 3.

OHIO (Columbus)—(A) Monthly. Mrs. J. Bray, 452 N. Westmoor. Mar. 10, Apr. 7.

OHIO (Lancaster)—(A) Spring. L. B. Dunfee, 1340 E. Fair Ave. May 25-26.

OKLAHOMA (Arcadia)—(A) Monthly. H. C. O'Neill, P. O. Box 3164, State Cap. Sta., Oklahoma City. Mar. 17, Apr. 21, May 19.

PENNSYLVANIA (Allentown)—2700. C. A. Bauscher, 323 No. Jordan St. May 4.

SOUTH CAROLINA (Charleston)—(A) Monthly. G. E. Lunsford, 1887 Halo Lane. Mar. 2, Apr. 6, May 4.

TENNESSEE (Memphis)—1500. J. V. Orlando, P. O. Box 9328, N.A.S. Mar. 3, Apr. 7. Spring 2700. Mar. 23-24. (A) 2700. Apr. 28.

TENNESSEE (Memphis)—(A) Mid-South. R. D. Krelstein, 5491 Gwynne Rd. Mar. 10, Apr. 21. (A) Spring 2700. May 4-5.

TENNESSEE (Oak Ridge)—Spring Warm-Up. H. F. McDuffie, 105 Euclid Pl. May 11-12.

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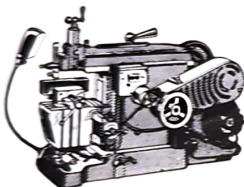
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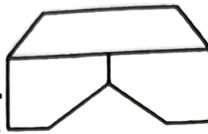
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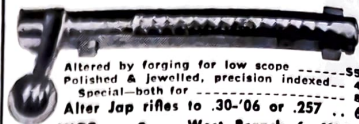
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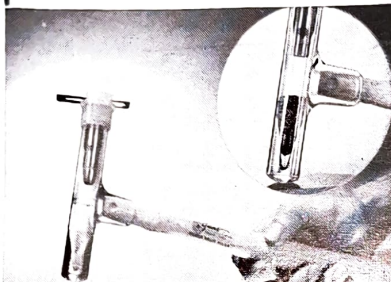
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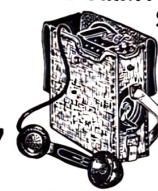
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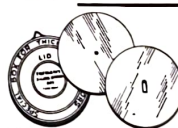


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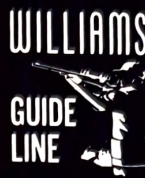
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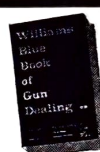
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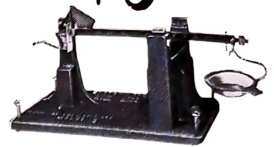


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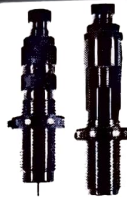
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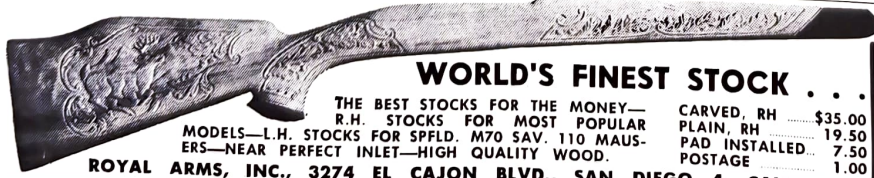
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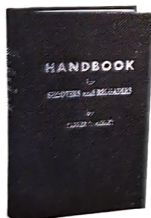
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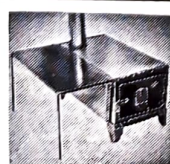
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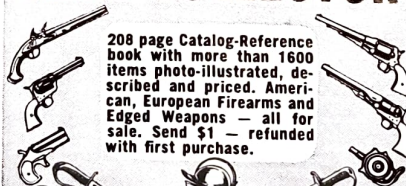
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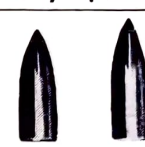
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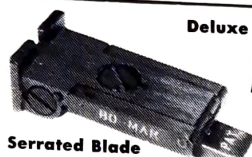
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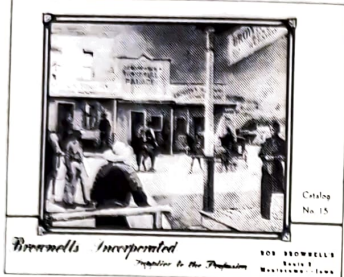
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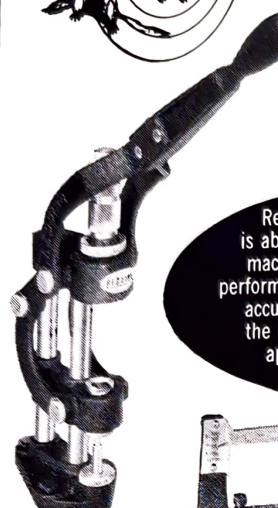
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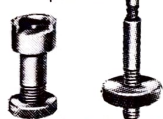
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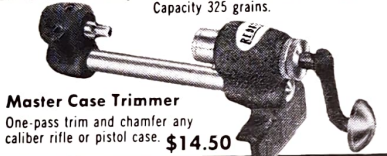


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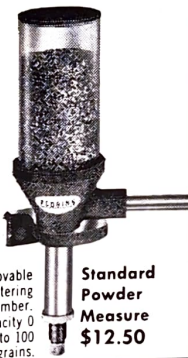


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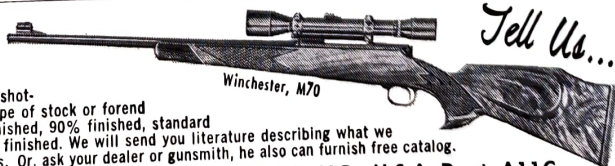
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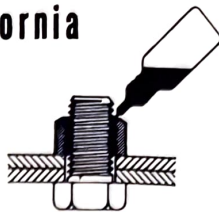
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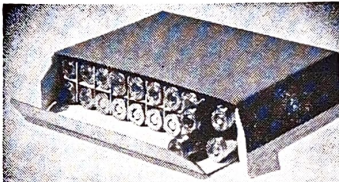
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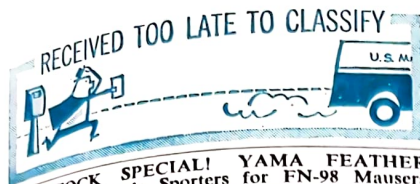


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WANTED: WINCHESTER MODEL 65 (ANY
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Ed's Own Blue, \$2.00; Mould Glaze, casts bullets
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ing Glasses, Only \$4.95. Agramonte's, Inc., 41
Riverdale Avenue, Yonkers, New York.

COVER PHOTOS WANTED

THE AMERICAN RIFLEMAN maga-
zine uses full-color transparencies on
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ject matter of these transparencies
must be related to hunting, shooting,
or firearms. An occasional panoramic
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composition, is used. Transparencies
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immediate attention by the Editor and
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SCORE SHEET

cont'd from page 11

Tucson, Ariz., gunsmith **Roy Dunlap** topped Expert **Robert Spann**, also of Tucson, by 2 V's for the winning 245-21V at the local Jack Lahr Range Officer's Trophy

second-place shooter. **Joe Frye** of Memphis came in first at the February shoot with an 852. . . . Competitors had to cover ice with their shooting mats in front of the 200-yd. line (to prevent glare from interfering with their sighting) at a cold January Capital City & Sierra Rifle M1 League at

has dominated the Central California Rifle Ass'n Cal. .30 Match at Ft. Barry. This time he carded a 246-28V.

Ken Despard of Rockford, Ill., repeated as winner of the 5th Annual Winnebago Smallbore Gallery Match at Rockford with a 965x1000 aggregate. Over 100 shooters



Dunlap



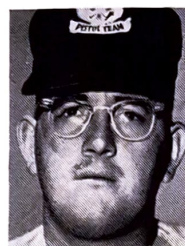
Smith



Burton



De Fino



Heugatter



Despard

High Power Rifle Match.

PO1 Gasper P. DeFino, USN, won all the matches at the Memphis, Tenn., January Indoor Pistol Match. His 883 was 31 points higher than the efforts of the sec-

Vacaville, Calif. Coming in first was **Melvin Rowan** of Oakdale, Calif., with a 239-13V match score.

Once again **Earl H. Burton** of Vacaville, Calif., the National Bolt Rifle Champion,

attended the popular event. . . . Army shooter **Emil W. Heugatter** won the A'Burg Rifle & Pistol Club Annual Fall Pistol Tournament at Aschaffenburg, Germany, with a 2617-106X.—**JOHN J. GRUBAR**

NRA FLOAT



The National Rifle Association participated in the Tournament of Roses Parade in Pasadena, Calif., with a float depicting in theme "The Bill of Rights—Freedom to Keep and Bear Arms". This beautiful and significant representation of the NRA was seen on both the CBS and NBC television networks.

The arrangements with the Tournament of Roses and the ultimate execution of the float was supervised by Robert M. Modisette, Jr., a member of the NRA Executive Committee. The float was constructed by the skilled experienced contractor, Dr. Sam Coleman of Pasadena, who has long been noted for his outstanding float entries. Mr. Kent Felker assisted in the design of the 50-ft.-long float. One-half million flowers consisting of chrysanthemums, roses, orchids, carnations, and gladioluses were used.

Portraying NRA programs in tableaux on the float were the following NRA members: *Colonial Soldier*, Harry Jackman, Vice President, San Gabriel Gun Club; *Modern Soldier*, Capt. Bernard B. Balough, California National Guard; *Junior Marksmanship*, Pamela Kelly and Skip Hutchins, San Gabriel Gun Club; *Instructors*, Gladys Rising, NRA Director, and Keith Giles, Pasadena; *International Shooting*, Capt. William W. McMillan, Jr., USMC, Olympic Gold Medal winner; *Game Conservation*, Ed Corpe, U. S. Forest Service; *Law Enforcement*, Sgt. Woody Pollard, Pasadena Police Dept., and Deputy Earl Galpin, L. A. County Sheriff's Dept.; *Bird Hunting*, Mr. and Mrs. Robert L. Johnston, West Covina, with a black Labrador and an English setter; and *Big Game Hunting*, Ben F. Smith, Jr., and his son, Scotty, Arcadia.



This expert's shooting savvy is part of every Remington

The man above is Dan Carroll, one of the most knowledgeable riflemen in the country. He also works for Remington. Dan is so highly regarded that literally dozens of good shooters come to talk things over with him at every match. So when Dan suggests a change or improvement that might make some Remington gun or cartridge a bit better, we pay close attention to what he says. And his advice usually results in a better product for the shooter.

Remington has many "Dan Carrolls." Some specialize in varmint shooting, others in trap and skeet. Some are expert hunters. All of them have a strong influence on Remington design.

Next time you squeeze one off at a whitetail or the X-ring of a target, remember these expert shooters at Remington. Their personal field experience has helped make Remington guns and ammunition the most consistent performers you can buy. Perhaps that's why Remington products score so well when the competition is toughest. The results of the 1962 Camp Perry National Matches (right) are a good example.

Remington 

Remington Arms Company, Inc., Bridgeport 2, Conn. In Canada: Remington Arms of Canada Limited, 36 Queen Elizabeth Blvd., Toronto, Ont.

REMINGTON GUNS AND AMMO HELPED WIN THESE NATIONAL TITLES

SMALL BORE MATCHES

- **Prone Championship:** (New record: 4793-377X.)
- **New Match Record in 50 Yd. Prone Any Sight**—400-40X plus added 35 X's.
- **4-Position Championship:** 1st, 2nd and 3rd Places.
- **22 Rifle Individual Matches:** 10 of 17 1sts; 11 of 17 2nds; 10 of 17 3rds.

PISTOL MATCHES

- **22 Caliber Championship:** 1st and 2nd Places—plus 2 of 4 1st Places, 4 of 4 2nd Places and 3 or 4 3rd Places in Individual Matches.
- **Center-Fire Championship:** 1st, 2nd and 3rd Places—plus 2 of 4 1st Places, 4 of 4 2nd Places and 3 of 4 3rd Places in Individual Matches.
- **45 Caliber Championship:** 1st and 2nd Places—plus 3 of 4 1st Places, 4 of 4 2nd Places and 4 of 4 3rd Places in Individual Matches.

New records made with Remington Match Ammunition: **Center Fire**—Timed Fire, 200-16X; **45 Caliber**—Slow Fire, 194-14X; Timed Fire, 200-14X—Rapid Fire, 199-13X.



Roll your own?

One of the basic reasons for reloading is to be able to do more shooting. Right? But nobody wants a "second-best" shell, just because it's a little bit cheaper. It's not good economy — or good shooting.

A good example of Winchester-Western quality is the careful mouth annealing of specialized straight cartridge brass — as you can see in the center of this illustration.

This same individualized care goes into every item in the full Winchester-Western component line — from primers to shot pellets. No shooter can do his best, unless he's shooting the best. That's Winchester-Western.

And it always will be.

WINCHESTER-WESTERN DIVISION **Olin**